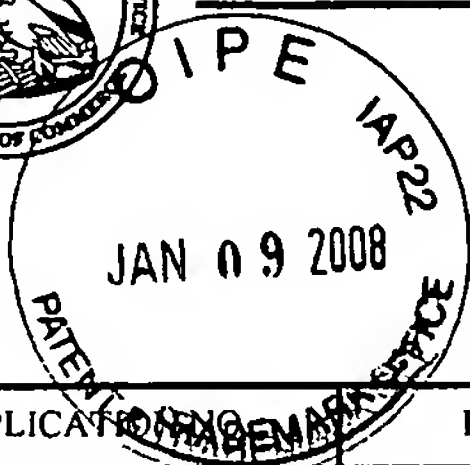




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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/711,718

09/30/2004

Gary D. Stringer

50131.0002

5717

Gary Stringer
Design Development Resources Inc.
347 Luster Drive
Branson, MO 65616

7590

01/02/2008

EXAMINER

SAUNDERS JR, JOSEPH

ART UNIT

PAPER NUMBER

2615

MAIL DATE

DELIVERY MODE

01/02/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/711,718	Applicant(s) STRINGER ET AL.	
	Examiner Joseph Saunders	Art Unit 2615	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 September 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 September 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>9-30-04, 2-25-05</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This is the initial office action based on the communications file September 30, 2004. Claims 1 – 30 are currently pending and considered below.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 7, 8, and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
4. Claim 7 depends on itself and therefore is indefinite. The examiner believes claim 7 should depend on claim 6 and therefore will be examined accordingly. Claim 8 is indefinite for depending on claim 7 for the aforementioned reason. Claim 20 recites the limitation "said second memory" however claim 12 from which it depends does not disclose a second memory and therefore the examiner believes that claim 20 should depend from claim 19 to provide proper antecedent basis and will be examined accordingly.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1, 2, 9 – 23, 25, 27, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Park (KR 2001100690 A, citations from translation), hereinafter Park, in view of MegaVoice (www.megavoice.com retrieved from <http://www.archive.org/index.php> as it appeared during June and July 2004), hereinafter MegaVoice.

Claim 1: Park discloses a portable audio player with audio content that a target user of the player is substantially incapable of altering (when stored in ROM), comprising: a memory for holding audio content ("first storage device (26) having contents of the digital bible expressed as a letter information and/or a sound information," Constitution, and also memory 25 and 27) an output interface for providing an audio signal that is representative of audio content held in said memory (speaker 9, earphone jack 10, Figures 2 and 3); an input interface for providing a user with the ability to cause audio content held by said memory to be accessed and converted into an audio signal that is provided to said output interface (input keys, Figure 3); a controller for receiving input from said input interface relating to the accessing of audio content held by said memory, causing audio content to be read from said memory, causing audio content read from said memory to be converted into an audio signal, and causing an audio signal to be provided to said output interface (CPU 24, Figure 4); and a housing for supporting said memory, output interface, input interface, and controller and protecting said memory

and said controller from exterior elements (portable electronic bible terminal 1, Figures 1 – 3); wherein said memory comprises at least one of a direct-access storage device and a random-access storage device (“ROM”, “flash memory”, and “memory card”, Paragraph 54).

Park discloses the device having an input interface including an input port (download socket 15 with download jack 16, memory card 13 with memory card removable part 14, and also personal computer 36 connection shown by dotted lines in Figure 4) but does not disclose wherein a target user is not readily able to use the input port to download audio content into said memory. MegaVoice discloses a similar line of “reliable, hand-held, solid-state audio players which Christian ministries and organizations can use to get their message to people in a secure and reliable manner,” Christian Applications. MegaVoice goes on to teach that “Secure means the end user can’t record over or replace your original message,” Why should our ministry use MegaVoice technology rather than MP3 players?. Therefore, while the portable audio player of Park is capable of having different content loaded, it would have been obvious to one of ordinary skill in the art at the time of the invention, given the Christian applications of both Park’s and MegaVoice’s device, to modify the device of Park as disclosed by MegaVoice so that the device of Park acted as a secure device thereby preventing a target user from altering the audio content and only allowing an authorized user to change the biblical message and prevent other unintended content from being loaded onto the device.

Claim 2: Park and MegaVoice disclose the portable audio player, as claimed in claim 1, wherein: said input interface comprises a port that is capable of engaging a port engagement device for the purpose of downloading audio content to said memory but from which audio content cannot be provided to said memory (field programmer, MegaVoice, Can I change a message I have previously loaded unto a MegaVoice player?).

Claim 9: Park and MegaVoice disclose the portable audio player, as claimed in claim 1, and MegaVoice further discloses wherein: said housing has dimensions that are each less than the dimensions of an ordinary book (64mm x 112mm x 17mm). Therefore, while Park does not disclose specifics as to size, it would have been obvious to one of ordinary skill in the art at the time of the invention to design the device of Park and MegaVoice as small as possible so thereby making it portable and "small enough to fit in your hand," MegaVoice, Ambassador.

Claim 10: Claim 10 is substantially similar in scope to claim 9 above and therefore is rejected on the same grounds.

Claim 11: Park and MegaVoice disclose the portable audio player, as claimed in claim 1, wherein: said memory comprises at least one of a disk drive, flash memory, and memory expansion card ("ROM", "flash memory", and "memory card", Park, Paragraph 54).

Claim 12: Park discloses a portable audio player with audio content that a target user of the player is substantially incapable of altering (when stored in ROM), comprising: a non-sequential-access memory for holding audio content ("first storage device (26) having contents of the digital bible expressed as a letter information and/or a sound information," Constitution, and also memory 25 and 27. "ROM", "flash memory", and "memory card", Paragraph 54); an output interface for providing an audio signal that is representative of audio content held in said memory (speaker 9, earphone jack 10, Figures 2 and 3); an input interface for providing a user with the ability to cause audio content held by said memory to be accessed and converted into an audio signal that is provided to said output interface (input keys, Figure 3); a controller for receiving input from said input interface relating to the accessing of audio content held by said non-sequential-access memory, causing audio content to be read from said non-sequential-access memory, causing audio content read from said non-sequential-access memory to be converted into an audio signal, and causing an audio signal to be provided to said output interface (CPU 24, Figure 4); and a housing for supporting said non-sequential-access memory, output interface, input interface, and controller and protecting said non-sequential-access memory and said controller from exterior elements (portable electronic bible terminal 1, Figures 1 – 3).

Park discloses the device having an input interface including an input port (download socket 15 with download jack 16, memory card 13 with memory card removable part 14, and also personal computer 36 connection shown by dotted lines in

Figure 4) but does not disclose wherein a target user is not readily able to use the input port to download audio content into said memory and also does not disclose wherein said housing encloses less than about 50 cubic inches. MegaVoice discloses a similar line of “reliable, hand-held, solid-state audio players which Christian ministries and organizations can use to get their message to people in a secure and reliable manner,” Christian Applications. MegaVoice goes on to teach that “Secure means the end user can’t record over or replace your original message,” Why should our ministry use MegaVoice technology rather than MP3 players?. Therefore, while the portable audio player of Park is capable of having different content loaded, it would have been obvious to one of ordinary skill in the art at the time of the invention, given the Christian applications of both Park’s and MegaVoice’s device, to modify the device of Park as disclosed by MegaVoice so that the device of Park acted as a secure device thereby preventing a target user from altering the audio content and only allowing an authorized user to change the biblical message and prevent other unintended content from being loaded onto the device. MegaVoice also discloses that the portable audio device is designed to have a size of (64mm x 112mm x 17mm). Therefore, while Park does not disclose specifics as to size, it would have been obvious to one of ordinary skill in the art at the time of the invention to design the device of Park and MegaVoice as small as possible so thereby making it portable and “small enough to fit in your hand,” MegaVoice, Ambassador.

Claims 13 – 15: The size of 64mm x 112mm x 17mm is presented in the rejection of

claim 12 above and therefore claims 13 – 15 are rejected on the same grounds.

Claim 16: Park and MegaVoice disclose the portable audio player, as claimed in claim 12, wherein: said non-sequential-access memory comprises a disk drive ("ROM", "flash memory", and "memory card", Park, Paragraph 54).

Claim 17: Park and MegaVoice disclose the portable audio player, as claimed in claim 12, wherein: said non-sequential-access memory comprises a flash memory ("ROM", "flash memory", and "memory card", Park, Paragraph 54).

Claim 18: Park and MegaVoice disclose the portable audio player, as claimed in claim 12, wherein: said non-sequential-access memory comprises a memory expansion card ("ROM", "flash memory", and "memory card", Park, Paragraph 54).

Claim 19: Park and MegaVoice disclose the portable audio player, as claimed in claim 12, wherein: said non-sequential-access memory comprises at least one of a first memory and a second memory that is separate from said first memory ("first storage device (26) having contents of the digital bible expressed as a letter information and/or a sound information," Constitution, and also memory 25 and 27, Park, Figures 2 and 4).

Claim 20: Park and MegaVoice disclose the portable audio player, as claimed in claim 12, wherein: said second memory is capable of being readily removed from said

housing by a user (Park, Figure 2).

Claim 21: Park discloses a portable audio player with audio content that a target user of the player is substantially incapable of altering (when stored in ROM), comprising: a non-sequential-access memory for holding audio content ("first storage device (26) having contents of the digital bible expressed as a letter information and/or a sound information," Constitution, and also memory 25 and 27. "ROM", "flash memory", and "memory card", Paragraph 54); an output interface comprising an audio port for providing an audio signal that is representative of audio content held in said memory (speaker 9, earphone jack 10, Figures 2 and 3); an input interface for providing a user with the ability to cause audio content held by said non-sequential-access memory to be accessed and converted into an audio signal that is provided to said output interface (input keys, Figure 3); a controller for receiving input from said input interface relating to the accessing of audio content held by said non-sequential-access memory, causing audio content to be read from said non-sequential-access memory, causing audio content read from said non-sequential-access memory to be converted into an audio signal, and causing an audio signal to be provided to said output interface (CPU 24, Figure 4); a housing for supporting said non-sequential-access memory, output interface, input interface, and controller and protecting said non-sequential-access memory and said controller from exterior elements (portable electronic bible terminal 1, Figures 1 – 3), and Biblical related content held in said non-sequential-access memory; wherein said Biblical related content comprises Biblical related audio content; wherein

said Biblical related audio content comprises at least two items; wherein said Biblical related content comprises a text catalog of said at least two items; wherein said output interface comprising a display for displaying at least a portion of said text catalog of Biblical related audio content held in said non-sequential-access memory; wherein said input interface comprises a navigation device that allows a target user to peruse said catalog and select an item from said catalog for playing (Constitution, Paragraphs 26, 52 – 63, and Figure 3).

Park discloses the device having an input interface including an input port (download socket 15 with download jack 16, memory card 13 with memory card removable part 14, and also personal computer 36 connection shown by dotted lines in Figure 4) but does not disclose wherein a target user is not readily able to use the input port to download audio content into said memory and also does not disclose wherein said housing encloses less than about 25 cubic inches. MegaVoice discloses a similar line of “reliable, hand-held, solid-state audio players which Christian ministries and organizations can use to get their message to people in a secure and reliable manner,” Christian Applications. MegaVoice goes on to teach that “Secure means the end user can’t record over or replace your original message,” Why should our ministry use MegaVoice technology rather than MP3 players?. Therefore, while the portable audio player of Park is capable of having different content loaded, it would have been obvious to one of ordinary skill in the art at the time of the invention, given the Christian applications of both Park’s and MegaVoice’s device, to modify the device of Park as disclosed by MegaVoice so that the device of Park acted as a secure device thereby

preventing a target user from altering the audio content and only allowing an authorized user to change the biblical message and prevent other unintended content from being loaded onto the device. MegaVoice also discloses that the portable audio device is designed to have a size of (64mm x 112mm x 17mm). Therefore, while Park does not disclose specifics as to size, it would have been obvious to one of ordinary skill in the art at the time of the invention to design the device of Park and MegaVoice as small as possible so thereby making it portable and "small enough to fit in your hand," MegaVoice, Ambassador.

Claim 22: Park and MegaVoice disclose the portable audio player, as claimed in claim 21, wherein: said Biblical related content comprises Biblical related text content that is capable of being displayed on said display (letter information, Park, Constitution).

Claim 23: Park and MegaVoice disclose the portable audio player, as claimed in claim 22, wherein: said Biblical related text content is related to at least a portion of said Biblical related audio content (contents of the digital bible expressed as a letter information and/or a sound information," Park, Constitution and Paragraph 26).

Claim 25: Park and MegaVoice disclose the portable audio player, as claimed in claim 23, wherein: said Biblical related text content comprises text that corresponds to at least a portion of said Biblical audio content (contents of the digital bible expressed as a letter information and/or a sound information," Park, Constitution and Paragraph 26).

Claim 27: Park and MegaVoice disclose the portable audio player, as claimed in claim 22, wherein: said Biblical related text content comprises a library of scriptures with each scripture in said library of scriptures being capable of being individually displayed on said display (Park, Paragraphs 52 – 63).

Claim 28: Park and MegaVoice disclose the portable audio player, as claimed in claim 27, wherein: said controller is capable of causing each of said scriptures from said library of scriptures to be individually displayed on said display during a period of time (Park, Paragraphs 52 – 63).

7. Claims 3 – 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Park and MegaVoice in view of Peinado (US 2003/0005246 A1), hereinafter Peinado.

Claim 3: Park and MegaVoice disclose the portable audio player, as claimed in claim 1, wherein: said input interface comprises a port for downloading audio content to said memory wherein the port is configured to deter a target user from downloading audio content to said memory, but Park and MegaVoice are silent to wherein said port comprises a lock and neither reference discloses in particular the specifics of how the device is secured from the end user and therefore one would be inclined to look elsewhere for such a teaching (Paragraph 6). Peinado discloses a system and method of protecting content stored on portable memory devices from unauthorized usage.

Peinado teaches that there are multiple techniques of locking a device from unauthorized use including using a memory of non-standard shape or size, a non-standard plug interface, or by using other non-standard or proprietary hardware features (Paragraph 7). Peinado also teaches that the lock can be implemented in a software manner by using a non-standard data representation scheme (Paragraph 9). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to use a lock as disclosed by Peinado in the device of Park and MegaVoice, to thereby protect the content stored on the portable audio device.

Claim 4: Park, MegaVoice, and Peinado disclose the portable audio player, as claimed in claim 3, wherein: said lock comprises a physical feature of said port that prevents a target user from using a port engagement device that is commercially available to the target user to establish a connection with said port (Peinado, Paragraph 7).

Claim 5: Park, MegaVoice, and Peinado disclose the portable audio player, as claimed in claim 3, wherein: said lock comprises an access code that, although a target user may be able to use a port engagement device that is commercially available to the target user to physically engage said port, prevents audio content from being transmitted from said port to said memory (cryptographic algorithm, Peinado, Paragraph 9).

Claim 6: Claim 6 is substantially similar in scope to claim 3 above and therefore is

rejected on the same grounds.

Claim 7: Claim 7 is substantially similar in scope to claim 4 above and therefore is rejected on the same grounds.

Claim 8: Claim 8 is substantially similar in scope to claim 5 above and therefore is rejected on the same grounds.

8. Claims 24, 26, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Park and MegaVoice in view of Fish (US 2005/0283723 A1, as of the provisional application (60/581,883) filing date of June 22, 2004), hereinafter Fish.

Claim 24: Park and MegaVoice disclose the portable audio player, as claimed in claim 23, but do not specify wherein: said Biblical related text content comprises chapter and verse associated with at least a portion of said Biblical audio content. Fish discloses a similar electronic reference system containing biblical information and discloses that Biblical related text content comprising chapter and verse (Paragraph 40, Provisional Paragraph 21) associated with at least a portion of said Biblical related audio content (Paragraph 46, Provisional Paragraph 26). Since both the device of Park and MegaVoice and the device of Fish deal with presenting biblical information in audio and visual form, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the aforementioned ideas of Fish in the device of Park and

MegaVoice allowing for better navigation and presentation of the biblical content.

Claim 26: Park and MegaVoice disclose the portable audio player, as claimed in claims 23, but do not specifically disclose wherein: said controller is capable of causing said Biblical related text content to be displayed on said display during the playing of said at least a portion of said Biblical related audio content. Fish however address this issue in claim 24 above and therefore claim 23 is rejected on the same grounds.

Claim 29: Park and MegaVoice disclose the portable audio player, as claimed in claim 22, but do not disclose wherein: said Biblical related text content comprises a concordance for said Biblical related audio content. Fish discloses a similar electronic reference system containing biblical information and discloses that Biblical related text content comprising chapter and verse (Paragraph 40, Provisional Paragraph 21) associated with at least a portion of said Biblical related audio content (Paragraph 46, Provisional Paragraph 26). Fish further discloses that a particular word or phrase can be highlighted allowing for a cross-referencing module to automatically scan the available writings and create a concordance or display of those writings that refer to the highlighted word. Since both the device of Park and MegaVoice and the device of Fish deal with presenting biblical information in audio and visual form, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the aforementioned ideas of Fish in the device of Park and MegaVoice allowing for better navigation and presentation of the biblical content.

9. Claim 30 is rejected under 35 U.S.C. 103(a) as being unpatentable over Park and MegaVoice in view of Argade (US 5,983,284), hereinafter Argade.

Claim 30: Park and MegaVoice disclose the portable audio player, as claimed in claim 21, but do not disclose the device further comprising: audio instructions on the operation of the player; said audio instruction held in said non-sequential-access memory; and said controller is capable of causing said audio instructions to be played in response to an actuation of a portion of said input interface. Argade discloses a general purpose protocol that allows a user of a device to get instruction (e.g., audio instructions) for operating a particular device. The instructions are held in non-sequential memory (ROM) and a controller (CPU) is capable of playing back the audio instructions in response to an input interface (interface) (Column 2 Line 45 – Column 3 Line 15). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the device of Park and MegaVoice, to provide audio instructions as disclosed by Argade, thereby allowing for easy operation of the device for all users (Argade, Background of the Invention).

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Saunders whose telephone number is (571)

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270-1063. The examiner can normally be reached on Monday - Thursday, 9:00 a.m. - 4:00 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on (571) 272-7564. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



JS
December 17, 2007



SINH TRAN
SUPERVISORY PATENT EXAMINER

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	Portable Audio Player																
 Application Number : Confirmation Number: First Named Applicant: Gary Stringer Attorney Docket Number: 50131.0002 Art Unit: Examiner: Search string: (6236526).pn																	
 US Patent Documents Note: Applicant is not required to submit a paper copy of cited US Patent Documents																	
<table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td>/JS/</td><td>1</td><td>6236526</td><td>2001-05-22</td><td>Hoekstra et al.</td><td>B1</td><td>360</td><td>72.02</td></tr></tbody></table>		init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	/JS/	1	6236526	2001-05-22	Hoekstra et al.	B1	360	72.02
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass										
/JS/	1	6236526	2001-05-22	Hoekstra et al.	B1	360	72.02										
 Remarks Note: Remarks are not for responding to an office action. Pursuant to the duty of disclosure set forth at 37 CFR Section 1.56 and the requirements for filing an Information Disclosure Statement set forth at 37 CFR Sections 1.97-1.98, the document identified on the attached Electronic Information Disclosure Statement is being disclosed. The disclosure of this document is not to be construed as an admission that the document, alone or in any combination, is considered to be material to patentability as defined in 37 CFR Section 1.56(b). Moreover, the disclosure of this document is not to be construed as an admission that the document is prior art as to the above-identified application.																	
 Signature																	
<table border="1"><tr><td>Examiner Name</td><td>Date</td></tr><tr><td>/Joseph Saunders/</td><td>12/08/2007</td></tr></table>		Examiner Name	Date	/Joseph Saunders/	12/08/2007												
Examiner Name	Date																
/Joseph Saunders/	12/08/2007																



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known	
		Application Number	10/711,718
		Filing Date	September 30, 2004
		First Named Inventor	Stringer, et al.
		Art Unit	2125
		Examiner Name	not yet assigned
Sheet 1	of 1	Attorney Docket Number	50131.0002

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/JS/	A	MEGAVOICE, Web-site for MegaVoice company, www.megavoice.com/home	

Examiner Signature	/Joseph Saunders/	Date Considered	12/08/2007
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Notice of References Cited	Application/Control No. 10/711,718	Applicant(s)/Patent Under Reexamination STRINGER ET AL.	
	Examiner Joseph Saunders	Art Unit 2615	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2003/0005246	01-2003	Peinado, Marcus	711/163
*	B	US-2005/0283723	12-2005	Fish, Rex	715/526
*	C	US-5,983,284	11-1999	Argade, Pramod V.	710/1
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
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(71) 출원인 박수완
경기 안양시 동안구 평촌동 932 - 7 현대아파트 603동 604호
(72) 발명자 박수완
경기 안양시 동안구 평촌동 932 - 7 현대아파트 603동 604호

심사청구 : 있음

(54) 휴대용 전자 성경 단말기 및 그 운용 방법

요약

본 발명은 사용자가 성경의 특정 본문을 검색할 수 있으며, 또한 디지털 성경의 폰트 크기를 사용자에게 맞도록 조절할 수 있는 휴대용 전자 성경 단말기 및 그 운용 방법에 관한 것으로서, 본 발명에 따른 휴대용 전자 성경 단말기의 운용 방법은 사용자가 휴대용 전자 성경 단말기에 제공되는 메뉴키를 눌러 디지털 성경의 목차를 화면표시장치에 디스플레이 하는 단계와; 상기 사용자가 상기 휴대용 전자 성경 단말기에 제공되는 방향 조작키를 위 또는 아래로 움직여 목차중 원하는 제목으로 이동한 후 상기 메뉴키를 이용하여 원하는 제목을 선택하는 단계와; 상기 사용자가 상기 휴대용 전자 성경 단말기에 제공되는 숫자키를 사용하여 원하는 성경 본문의 장수를 입력시키고 상기 메뉴키 이용하여 원하는 장수를 선택하는 단계로 이루어진다.

대표도
도 5

색인어
휴대용 전자 성경 단말기

명세서

도면의 간단한 설명

도 1은 본 발명에 따른 휴대용 전자 성경 단말기의 외형을 보인 사시도.

도 2는 본 발명에 따른 휴대용 전자 성경 단말기에 외부 기억장치를 착탈하는 것을 설명하기 위한 사시도.

도 3은 본 발명에 따른 휴대용 전자 성경 단말기를 펼친 상태를 보인 평면도.

도 4는 본 발명에 따른 휴대용 전자 성경 단말기의 블록 구성도.

도 5는 본 발명에 따른 휴대용 전자 성경 단말기의 동작을 설명하기 위한 제어 흐름도.

도면의 주요부분에 대한 부호의 설명

1 : 휴대용 전자 성경 단말기 2 : 화면 표시장치

3 : 전원키 4 : 방향 조작키

5 : 메뉴키 6 : 숫자키

7 : 소거키 8 : 확대키

9 : 스피커 10 : 이어폰 잭

11 : 배터리 12 : 배터리 충전 잭

13 : 메모리 카드(e - Bible Card) 14 : 메모리 카드 착탈부

15 : 다운로드 소켓 16 : 다운로드 잭

17 : 전자 성경 숭(E.B.S. : Electronic Bible Shop)

18 : 전자 성경 판매기(E.C.M. : e - Bible Card Vending Machine)

21 : 충전회로 22 : 배터리

23 : 키입력부 24 : CPU

25 : 고정 내부기억장치 26 : 내부기억장치

27 : 외부기억장치 28 : 압축데이터 처리부

29 : 디코더 30 : D/A 변환기

31 : 앰프 32 : 스피커

33 : 구동회로 35 : 인터넷

36 : 개인용 컴퓨터

발명의 상세한 설명

발명의 목적

발명이 속하는 기술 및 그 분야의 종래기술

본 발명은 휴대용 전자 성경 단말기 및 그 운용방법에 관한 것으로서, 특히 성경본문 및/또는 성경 본문에 상응하는 음성 정보가 내부에 저장된 휴대용 전자 성경 단말기 및 그 운용방법에 관한 것이다.

성경은 주전 1,500년경부터 주후 100년경까지 약 1,600년 동안에 걸쳐 여러사람들(약 40명)에 의해 쓰여진 기독교의 경전이다. 성경은 크게 구약과 신약으로 구분되는데, 구약은 히브리 말로 신약은 회랍 말로 쓰여졌다. 구약은 옛 약속(혹은 계약)이란 뜻이며, 신약은 새 약속이란 뜻이다.

이런 성경은 인류 역사상 가장 오랫동안 읽혀지고 있는 고전이며, 가장 많이 팔려서 읽혀지고 있는 베스트셀러라 할 수 있으며, 우리 나라에도 여러 종류의 성경이 판매되고 있다.

이러한 성경의 구약성경은 예수님이 오시기 전의 사건을 기록한 것으로 다음과 같이 39권으로 되어 있다.

(1) 율법서(5권): 창세기, 출애굽기, 레위기, 민수기, 신명기

(2) 역사서(12권): 여호수아, 사사기, 룻기, 사무엘상.하, 열왕기상.하, 역대상.하, 에스라, 느헤미야, 에스더

(3) 시가서(5권): 욥기, 시편, 잠언, 전도서, 아가

(4) 예언서(17권): 이사야, 예레미야, 예레미야 애가, 에스겔, 다니엘, 호세아, 요엘, 아모스, 오바다, 요나, 미가, 나훔, 하박국, 스바냐, 학개, 스가랴, 말라기

또한, 신약성경은 예수님 오신 후의 사건을 기록한 것으로 27권으로 되어 있으며, 다음과 같이 구분한다.

(1) 복음서(4권): 마태복음, 마가복음, 누가복음, 요한복음

(2) 역사서(1권): 사도행전

(3) 서신(21권): 로마서, 고린도전.후서, 갈라디아서, 에베소서, 빌립보서, 골로새서, 데살로니가전.후서, 디모테전.후서, 디도서, 빌레몬서, 히브리서, 야고보서, 베드로전.후서, 요한1,2,3서, 유다서

(4) 예언서(1권): 요한 계시록

그러나, 이러한 종이재질의 성경은 신앙의 초보자들이 특정 본문을 찾기가 어렵고 또한 글자 크기가 미리 고정된 크기이기 때문에 하나의 성경으로 어른과 어린이 또는 노인이 같이 사용할 수 없었다. 또한, 한 권의 성경은 하나의 언어 또는 2개의 언어로만 되어있기 때문에 2개 언어 이상의 성경이 필요한 경우, 여러점에서 불편하였다.

이러한 불편한 점을 해소하기 위해 전자서점(또는 사이버 서점)에서 인터넷을 통하여 디지털 성경을 판매하고 있다. 그러나, 이러한 디지털 성경을 보기 위해서는 인터넷이 가능한 컴퓨터를 반드시 이용하여야만 한다. 즉, 인터넷이 가능한 컴퓨터를 이용하여 인터넷에 접속한 후, 특정 전자서점에서 디지털 책을 볼 수 있는 소프트웨어와 디지털 성경을 함께 다운 받고, 다운 받은 성경을 컴퓨터를 이용하여 보는 것이다.

그러나, 이러한 디지털 성경은 휴대성이 떨어지기 때문에 버스, 전철 그리고 기차 등의 대중 교통을 이용하거나, 누구를 기다리는 동안에는 볼 수가 없는 단점이 있었다.

발명이 이루고자 하는 기술적 과제

본 발명의 목적은 이상에서 언급한 종래 기술의 문제점을 해결하고자 창안한 것으로서, 내부 기억저장장치에 저장된 디지털 성경을 화면표시장치를 통하여 제공할 수 있는 휴대용 전자 성경 단말기 및 그 운용 방법을 제공하기 위한 것이다.

본 발명의 다른 목적은 사용자가 성경의 특정 본문을 검색할 수 있으며, 또한 디지털 성경의 폰트 크기를 사용자에게 맞도록 조절할 수 있는 휴대용 전자 성경 단말기 및 그 운용 방법을 제공하기 위한 것이다.

이상과 같은 목적을 달성하기 위하여, 본 발명에 따른 휴대용 전자 성경 단말기는 디지털 성경을 읽기 위한 조작신호를 인가하는 키입력부와; 상기 키입력부의 제어에 따라 휴대용 전자 성경 단말기의 전체적인 동작을 제어하는 중앙처리부(CPU)와; 상기 디지털 성경의 내용이 문자 및/또는 음성정보 형태로 저장된 제1 기억장치와; 상기 중앙처리부의 제어에 따라 디지털 성경의 내용을 표시하여 주는 화면표시장치와; 상기 중앙처리부의 제어에 따라 상기 화면표시장치를 구동하는 구동회로를 포함하여 구성된다.

또한, 본 발명에 따른 휴대용 전자 성경 단말기의 운용 방법은 사용자가 휴대용 전자 성경 단말기에 제공되는 메뉴키를 눌러 디지털 성경의 목차를 화면표시 장치에 디스플레이 하는 단계와; 상기 사용자가 상기 휴대용 전자 성경 단말기에 제공되는 방향 조작키를 위 또는 아래로 움직여 목차중 원하는 제목으로 이동한 후 상기 메뉴키를 이용하여 원하는 제목을 선택하는 단계와; 상기 사용자가 상기 휴대용 전자 성경 단말기에 제공되는 숫자키를 사용하여 원하는 성경 본문의 장수를 입력시키고 상기 메뉴키 이용하여 원하는 장수를 선택하는 단계로 이루어진다.

발명의 구성 및 작용

이하에서, 첨부된 도면을 참조하여 본 발명의 구성 및 동작을 설명한다.

도 1은 본 발명에 따른 휴대용 전자 성경 단말기의 외형을 보인 사시도이다. 도 1을 참조하면, 본 발명의 휴대용 전자 성경 단말기는 기존의 종이 재질의 성경책과 거의 동일한 크기를 갖으며, 접을 수도 있으며, 펼쳤을 때는 도 3에 도시된 바와 같이 왼쪽에는 화면표시부가 제공되며, 오른쪽에는 전자 성경 단말기의 제어부가 제공된다.

도 4는 본 발명에 따른 휴대용 전자 성경 단말기의 블록 구성도이다. 도 4를 참조하면, 본 발명의 휴대용 전자 성경 단말기는 전원키(POWER) (3)와, 커저의 방향을 상·하로 이동하는 방향 조작키(4)와, 디지털 성경의 원하는 본문을 찾을 때 사용하는 메뉴키(MENU) (5)와, 숫자키(6)와, 숫자키(6)를 통해 잘못 입력된 숫자를 지우는 소거키(ERASE) (7)와, 디지털 성경의 글자 폰트의 크기를 확대 또는 축소하는 확대키(ZOOM) (8)로 이루어진 키입력부(23)와; 키입력부(23)의 제어에 따라 디지털 성경의 전체적인 동작을 제어하는 중앙처리부(CPU) (24)와; 디지털 성경의 내용이 문자 및/또는 음성정보 형태로 저장된 고정내부기억장치(25)와; 외부에서 제공된 압축 데이터를 현재 장치에 맞도록 처리하는 압축데이터처리부(28)와; 압축데이터처리부(28)에서 출력되는 데이터를 저장하는 내부기억장치(26) 및 외부기억장치(27)와; 중앙처리부(24)의 제어에 따라 디지털 성경의 내용을 표시하여 주는 화면표시장치(2); 중앙처리부(24)의 제어에 따라 화면표시장치(2)를 구동하는 구동회로(33)와; 내부기억장치(26) 또는 외부기억장치(27)의 출력신호를 중앙처리부(24)의 제어신호에 따라 디코딩하여 출력하는 디코더(29)와; 중앙처리부(24)의 제어신호에 따라 디코더(29)의 출력신호를 아날로그 변환하는 디지털/아날로그 변환기(30)와; 디지털/아날로그 변환기(30)의 출력신호를 소정의 증폭비로 증폭하는 증폭기(31)와; 증폭기(31)의 출력신호를 가청 가능한 음성으로 출력하는 스피커(32)로 구성된다. 여기서, 미설명 부호 21은 충전회로이며, 22는 배터리이다.

또한, 고정내부기억장치(25)는 여러 종류의 메모리가 가능하나, 본 발명의 실시 예에서는 롬(ROM)을 사용하였다. 본 발명의 실시 예에서는 고정내부기억장치(25)에 기존의 성경책과 동일하게 구약성경 및 신약성경이 아래의 표1 및 표2에 도시된 바와 같이 목차별로 입력되어 있어 누구나 간단히 원하는 제목을 찾아 화면표시장치(2)를 통하여 볼 수 있다.

또한, 내부기억장치(26)는 플래시 메모리가 사용되었다. 그러나, 외부기억장치(29)는 국제규격을 갖는 신용카드 크기의 메모리 카드가 사용되었다. 본 발명에서는 이를 "e - Bible Card"라 명명한다.

【표 1】

분 류		약자	제 목	장 수	페이지
구약 성경	율법서 (모세5경) (5권)	창	창세기	50	
		출	출애굽기	40	
		레	레위기	27	
		민	민수기	36	
		신	신명기	34	
	역사서 (12권)	수	여호수아	24	
		삿	사사기	21	
		룻	룻기	4	
		삼상	사무엘상	31	
		삼하	사무엘하	24	
		왕상	열왕기상	22	
		왕하	열왕기하	25	
		대상	역대상	29	
		대하	역대하	36	
		스	에스라	10	
		느	느헤미야	13	
		에	에스더	10	
	시가서 (5권)	욥	욥기	42	
		시	시편	150	
		잠	잠언	31	
		전	전도서	12	
		아	아가	8	
	예언서 (17권)	사	이사야	66	
		렐	에레미야	52	
		애	에레미야애가	5	
		겔	에스겔	48	
		단	다니엘	12	
		호	호세아	14	
		욥	요엘	3	
		암	아모스	9	
		옵	오바다	1	
		욘	요나	4	
		미	미가	7	
		나	나훔	3	
		합	하박국	3	
		습	스바나	3	
		학	학개	2	
		속	스가랴	14	
		말	말라기	4	

【표 2】

분 류			약 자	제 목	장 수	페이지
성경 성경 성경	4 복음서 (4권)		마	마태복음	28	
			막	마가복음	16	
			눅	누가복음	24	
			요	요한복음	21	
	역사서		행	사도행전	28	
	교리서신 (4권)		딤후	로 마 서	16	
			고전	고린도전서	10	
			고후	고린도후서	13	
			갈	갈라디아서	6	
	옥중서신 (4권)		엡	에베소서	6	
			빌	빌립보서	4	
			골	골로새서	4	
			몬	빌레몬서	1	
	일반서신		살전	테살로니가전서	5	
			살후	테살로니가후서	4	
	복회서신		딤후	디모데전서	6	
			딤후	디모데후서	4	
			딤후	디도서	3	
			히	히브리서	13	
	사도서신 (8권)		약	야고보서5	5	
			벧전	베드로전서	5	
			벧후	베드로후서	3	
			요1	요한일서	5	
			요2	요한이서	1	
			요3	요한삼서	1	
			유	유다서	1	
			계	요한계시록	22	
	예언서		계	요한계시록	22	

이하에서 첨부된 도면을 참조하여, 본 발명에 따른 휴대용 전자 성경 단말기의 동작을 설명한다.

먼저, 사용자는 휴대용 전자 성경 단말기를 도3과 같이 펼치고, 전원키(3)를 통하여 전원을 인가한다(S1). 이때, 전원키(3)를 한번 2초간 누르면 전원이 켜지고, 또 한번 2초간 누르면 전원은 꺼진다. 전원이 제공되는 경우, 화면표시장치(2)에 음성(Sound)과 함께 로고(LOGO)가 나타나도록 할 수 있는데, 로고는 예수상, 마리아상, 십자가상 등을 선택할 수 있다.

이어, 사용자는 메뉴키(5)를 눌러 디지털 성경의 목차를 화면표시장치(2)에 디스플레이한다(S2). 즉, 사용자가 메뉴키(5)를 한번 누르면 휴대용 전자 성경 단말기의 중앙처리부(24)는 표1 및 표 2에 도시된 트리(Tree) 형태의 디지털 성경의 목차가 화면표시장치(2)에 디스플레이 되도록 제어한다. 이때, 커저(미도시)는 구약성경 의 창세기 제목에서 압박거리도록 설정되어있다.

이어, 사용자는 방향 조작키(4)를 위 또는 아래로 움직여 목차중 원하는 제목으로 이동한 후 메뉴키(5)를 2번째 눌러 원하는 제목을 선택한다(S3).

이어, 사용자는 숫자키(6)를 사용하여 원하는 성경 본문의 장수를 입력시키고 메뉴키(5)를 3번째 누르면 원하는 장수를 선택된다(S4). 이때, 만일 사용자가 숫자를 잘못 입력하였을 경우에는 소거키(7)를 지우고, 정확한 숫자를 다시 입력할 수 있다

이어, 사용자는 다른 성경본문으로 이동할 경우, 화면표시장치(2)에 나타난 메뉴의 커서(미도시)를 이용하여 원하는 제목을 선택할 수 있다.

또한, 사용자는 현재의 성경본문을 읽은 후 다시 앞의 본문이나 뒤의 성경본문을 읽고 싶은 경우에는 방향 조작키(4)를 이용하여 페이지 업 또는 페이지 다운을 실행할 수 있다(S5).

또한, 사용자는 필요시 현재 화면표시장치(2)에 표시되는 글자의 폰트가 작거나 크다고 판단되면, 확대키(8)를 선택하여 글자 크기를 조절할 수 있다(S6). 따라서, 노약자나 시력장애자가 원하는 부분을 확대, 축소할 수 있어 사용상의 편리성을 증대할 수 있다.

이때의 글자의 폰트 크기는 표준글자, 확대1, 확대2의 3단계로 구성되며, 확대키(8)를 선택하는 횟수에 따라 표준글자, 확대1, 확대2의 순서가 반복적으로 순환한다. 이렇게 글자 폰트가 확대된 상태에서 좌, 우로 이동은 전원키(3)와 메뉴키(5)를 이용하여 실시한다.

본 발명의 다른 실시 예로서, 도 2에 도시된 바와 같이 신용카드 크기의 메모리카드(e-Bible Card)를 본 발명의 휴대용 전자 성경 단말기에 삽입하여, 좋아하는 목사님의 설교, 찬송가 등을 저장 및 보거나 들을 수 있다. 이때에는 고정 내부기억장치(25)는 사용되지 않으며, 내부기억장치(26) 또는 외부기억장치(27)가 사용된다.

또한, 설교 및 찬송가는 인터넷(Internet)을 통하여 전자 성경 숭(EBS : Electronic Bible Shop)에서 다운 받아서 저장한 후 사용하거나, 전자 성경 카드 벤딩장치(EMC : e-Bible Card Vending Machine)를 통하여 다운 받아 저장하여 사용할 수도 있다.

이상에서 설명한 휴대용 전자 성경 단말기 및 그 운용방법은 불교경전이나 코란 등의 종교서적 및 법전 등에도 동일하게 적용될 수 있음을 밝혀둔다.

발명의 효과

이상에서 설명한 본 발명에 따른 휴대용 보기장치는 다음과 같은 효과를 제공한다.

첫째, 본 발명의 휴대용 전자 성경 단말기의 내부에 있는 기억매체(ROM)에 모든 성경의 내용이 디지털 파일 형태로 저장되어 있어 언제나 원할 때 편리하게 찾아서 볼 수 있다.

둘째, 원하는 성경 본문을 간단하게 빨리 찾아볼 수 있어서, 신앙의 초보자들이나, 어린이 또는 노인들에게 매우 편리하게 이용될 수 있다.

셋째, 성경 본문의 특정부분을 확대 또는 축소하여 볼 수 있어서 노약자나 시력장애자에게 매우 편리하다.

넷째, 별도의 외부 기억매체(e-Bible Card)를 선택적으로 사용할 수 있기 때문에 원하는 목사님의 설교, 찬송가 등을 고성능 스피커를 통하여 최첨단 디지털 음질로 들을 수 있다.

(57) 청구의 범위

청구항 1.

디지털 성경을 읽기 위한 조작신호를 인가하는 키입력부와;

상기 키입력부의 제어에 따라 휴대용 전자 성경 단말기의 전체적인 동작을 제어하는 중앙처리부(CPU)와;

상기 디지털 성경의 내용이 문자 및/또는 음성정보 형태로 저장된 제1 기억장치와;

상기 중앙처리부의 제어에 따라 디지털 성경의 내용을 표시하여 주는 화면표시장치와;

상기 중앙처리부의 제어에 따라 상기 화면표시장치를 구동하는 구동회로를 포함하여 구성되는 것을 특징으로 하는 휴대용 전자 성경 단말기.

청구항 2.

제 1항에 있어서, 상기 키입력부는 전원키와,

커저의 방향을 상·하로 이동하는 방향 조작키와,

상기 디지털 성경의 원하는 본문을 찾을 때 사용하는 메뉴키와,

숫자키와,

상기 숫자키를 통해 잘못 입력된 숫자를 지우는 소거키와,

상기 디지털 성경의 글자 폰트의 크기를 확대 또는 축소하는 확대키를 포함하여 구성되는 것을 특징으로 하는 휴대용 전자 성경 단말기.

청구항 3.

제1항에 있어서, 외부에서 제공된 압축 데이터를 현재 장치에 맞도록 처리하는 압축데이터처리부와;

상기 압축데이터처리부에서 출력되는 데이터를 저장하는 제2 기억장치 및/또는 제3 기억장치와;

상기 제2 기억장치 또는 제3 기억장치의 출력신호를 상기 중앙처리부의 제어신호에 따라 디코딩하여 출력하는 디코더와;

상기 중앙처리부의 제어신호에 따라 상기 디코더의 출력신호를 아날로그 변환하는 디지털/아날로그 변환기와;

상기 디지털/아날로그 변환기의 출력신호를 소정의 증폭비로 증폭하는 증폭기와;

상기 증폭기의 출력신호를 가청 가능한 음성으로 출력하는 스피커를 더 포함하여 구성되는 것을 특징으로 하는 휴대용 전자 성경 단말기.

청구항 4.

사용자가 휴대용 전자 성경 단말기에 제공되는 메뉴키를 눌러 디지털 성경의 목차를 화면표시장치에 디스플레이 하는 단계와;

상기 사용자가 상기 휴대용 전자 성경 단말기에 제공되는 방향 조작키를 위 또는 아래로 움직여 목차중 원하는 제목으로 이동한 후 상기 메뉴키를 이용하여 원하는 제목을 선택하는 단계와;

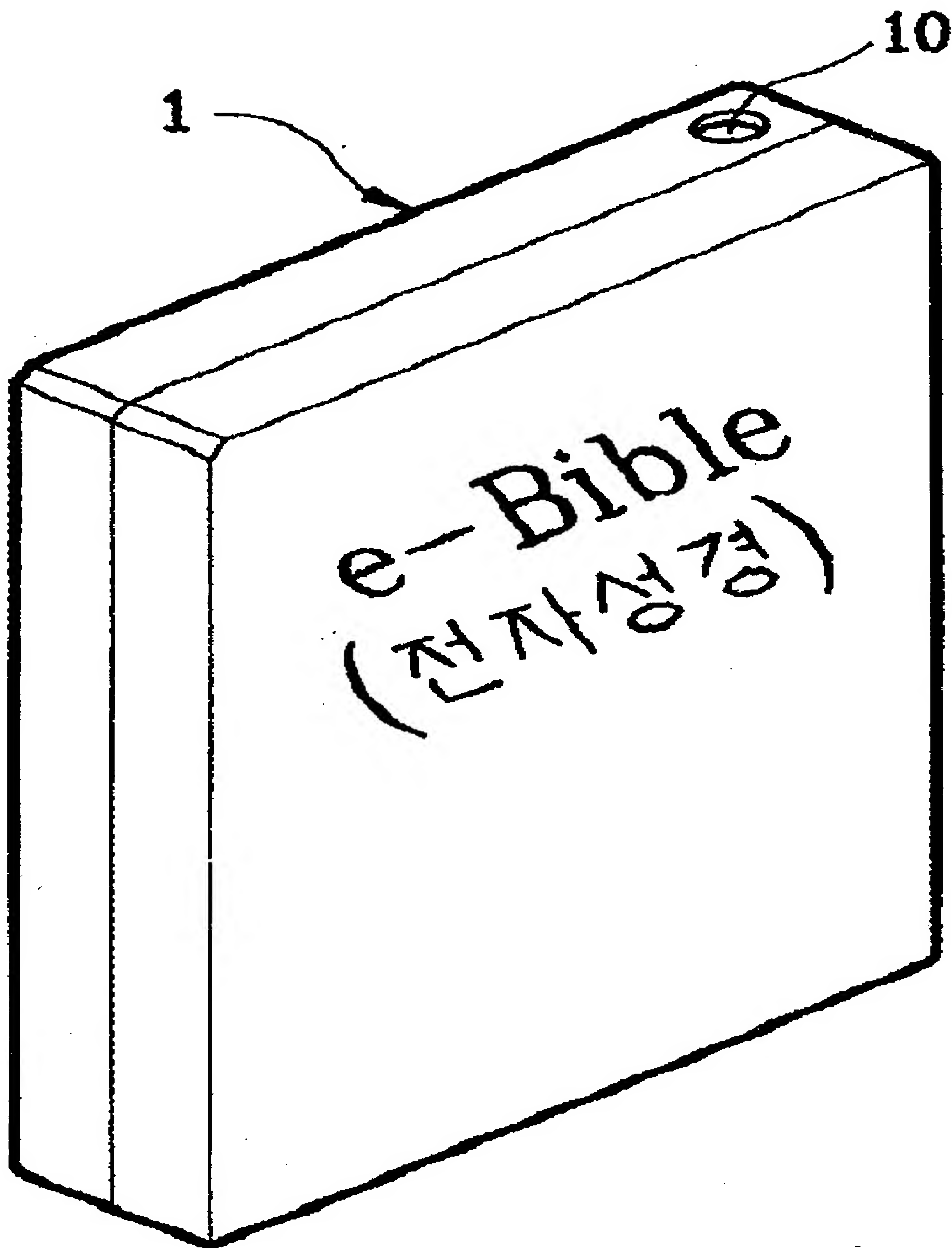
상기 사용자가 상기 휴대용 전자 성경 단말기에 제공되는 숫자키를 사용하여 원하는 성경 본문의 장수를 입력시키고 상기 메뉴키 이용하여 원하는 장수를 선택하는 단계로 이루어진 것을 특징으로 하는 휴대용 전자 성경 단말기의 운용 방법.

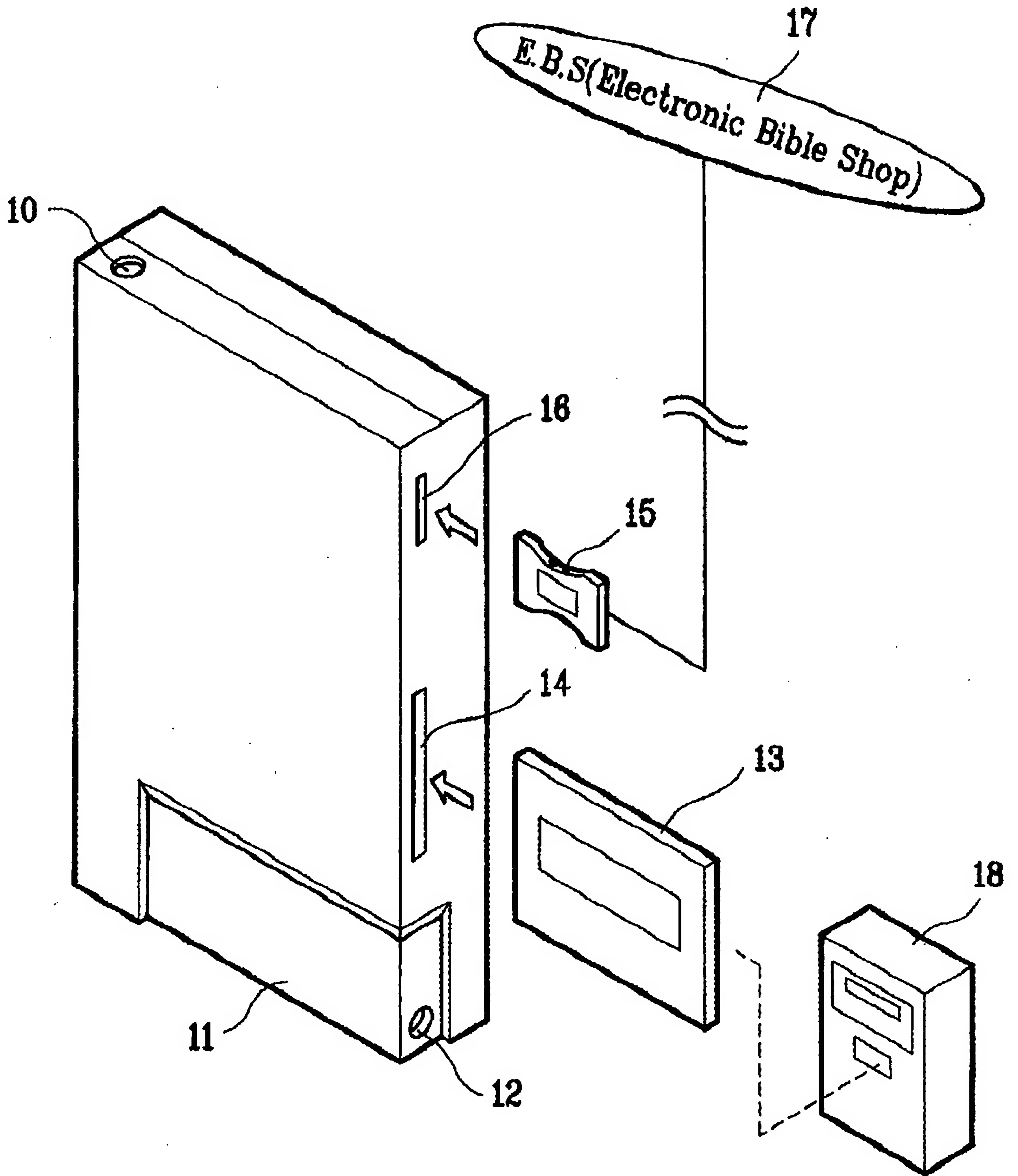
청구항 5.

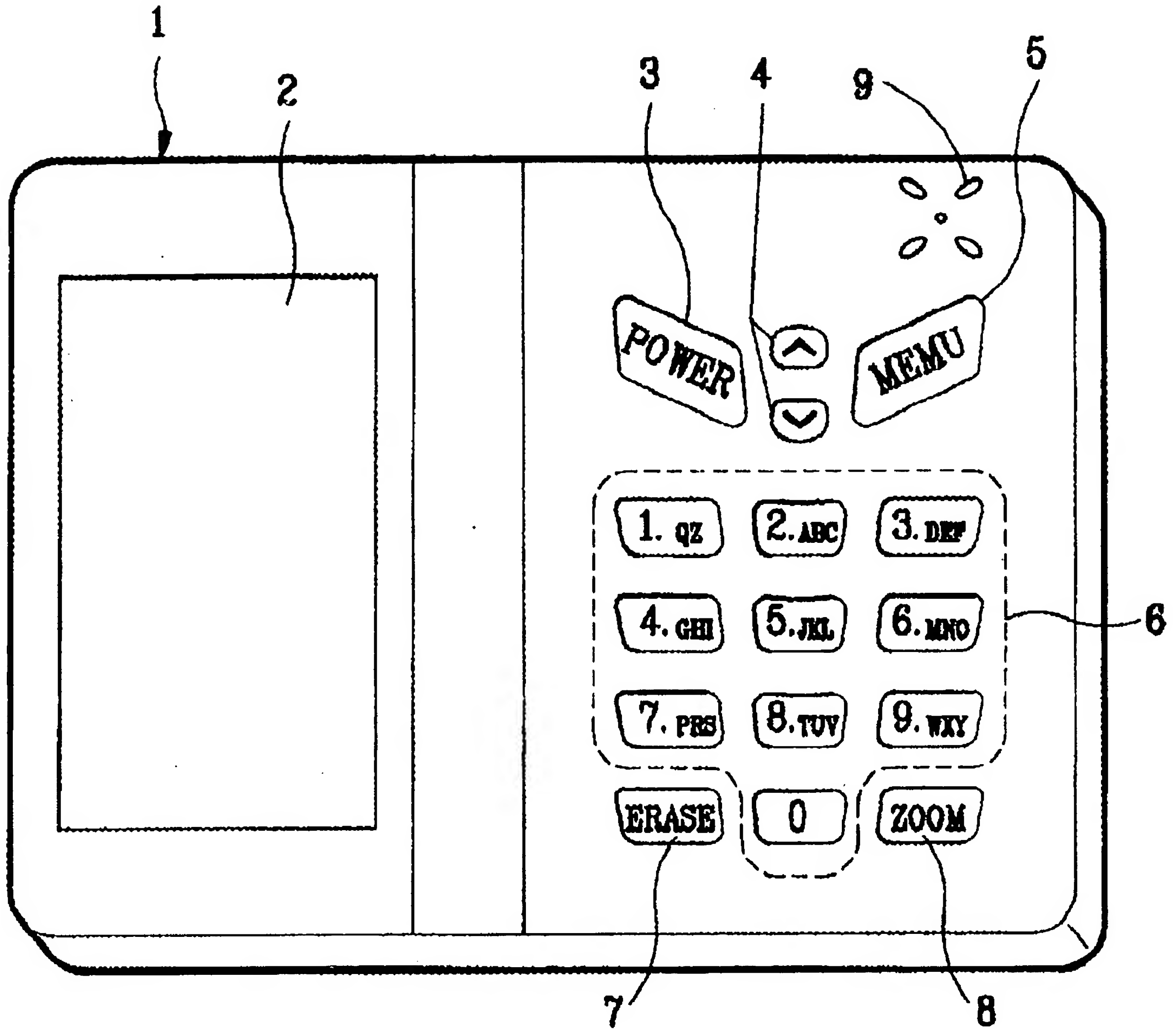
제 4항에 있어서,

상기 사용자가 현재의 성경본문을 읽은 후 다시 앞의 본문이나 뒤의 성경본문을 읽고 싶은 경우, 상기 휴대용 전자 성경 단말기에 제공되는 방향 조작키를 이용하여 화면을 페이지 업 또는 페이지 다운을 실행하는 단계와;

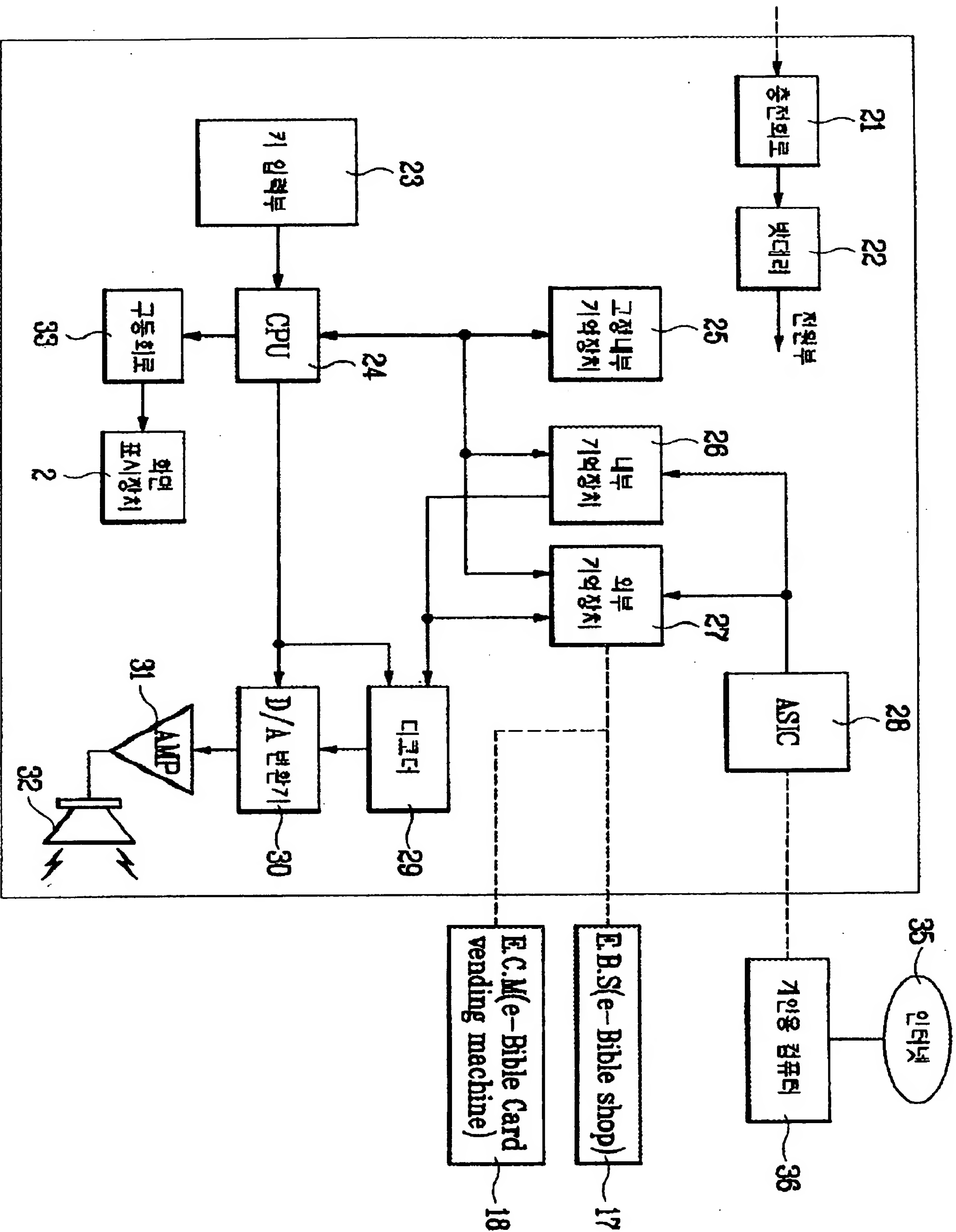
상기 사용자가 필요시 현재 화면에 표시되는 글자의 폰트 크기를 상기 휴대용 전자 성경 단말기에 제공되는 확대키를 이용하여 조절하는 단계를 더 포함하는 것을 특징으로 하는 휴대용 전자 성경 단말기의 운용 방법.

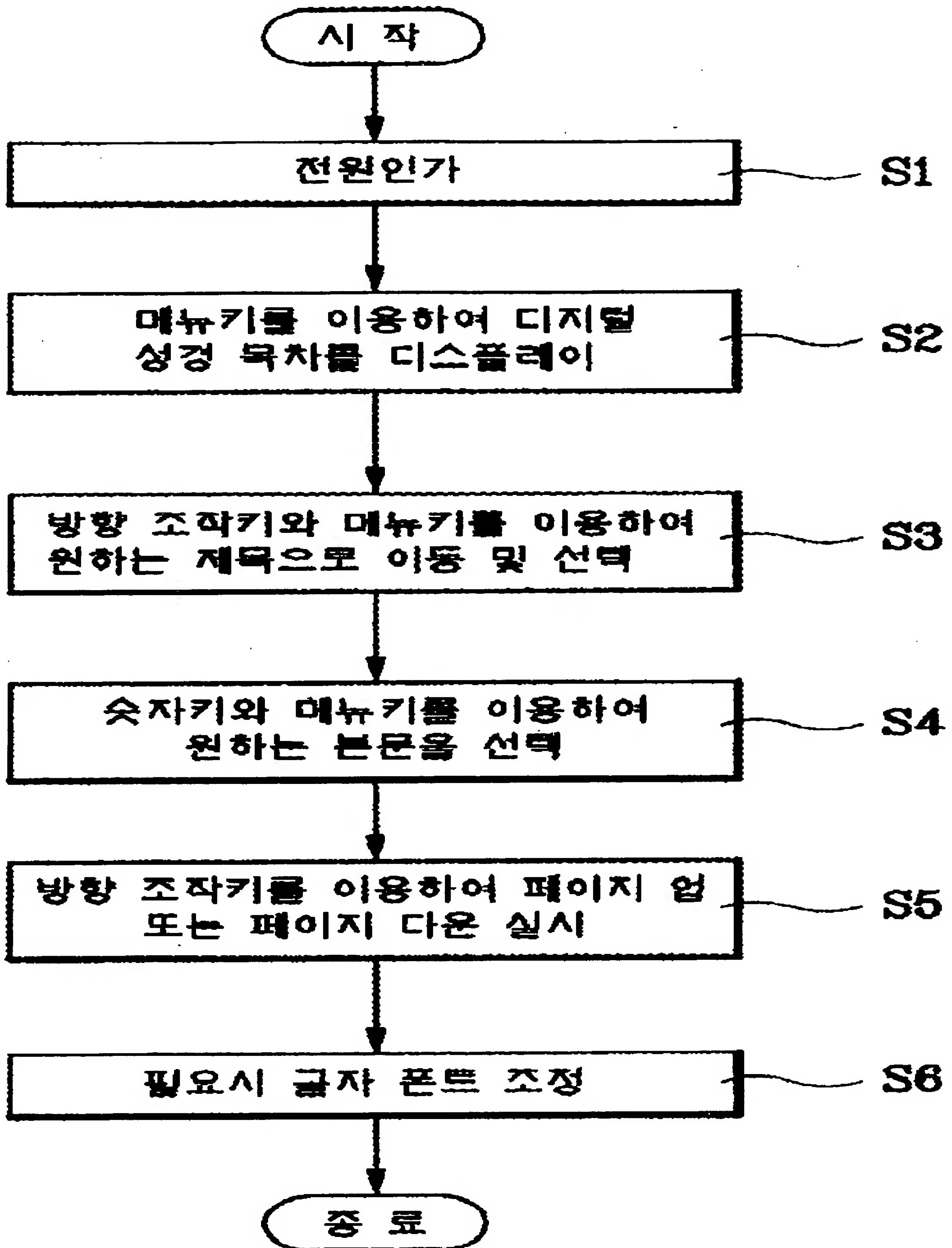






도면 4





Untitled

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(72) Inventor Su-Wan Park

(71) Applicant Su-Wan Park

Requested

(54) ELECTRONIC BIBLE TERMINAL AND OPERATING METHOD

1 The present invention relates to the portable electronic bible terminal and the operating method a user can search the specific text of the Bible, and for controlling in order to fit moreover, the font size of the digital Bible for a user, and as to the operating method of the portable electronic bible terminal, a user presses the manu key provided to the portable electronic bible terminal and it is made of the step displaying the table of contents of the digital Bible to the display device, the step that a user selects the upper part or the title, and the step that it inputs the general of the Bible text. The step that a user selects the upper part or the title desires by using the manu key after below moving and moving to the desired title among the table of contents the direction handling key provided to the portable electronic bible terminal. The step that it inputs the general of the Bible text desires by using the numeric key provided to the portable electronic bible terminal and a user makes a choice for the general who desires by using with the manu key.

PURPOSE: A portable electronic bible terminal and a method for using the same are provided to supply a user with a digital bible, stored in an internal storage device, through a display device.

CONSTITUTION: The portable electronic bible terminal comprises a key input unit(23) for applying an operating signal for reading a digital bible; a CPU(24) for controlling the total operation of the portable electronic bible terminal in accordance with the control of the key input unit(23); the first storage device(26) having contents of the digital bible expressed as a letter information and/or a sound information; a display device(2) for indicating the contents of the digital bible in accordance with the control of the CPU(24); and a driving circuit(33) for driving the display device(2) in accordance with the control of the CPU(24).

Untitled

Fig. 5

Portable electronic bible terminal.

2 Fig. 1 is a perspective view showing the outer shape of the portable electronic bible terminal according to the present invention.

3 Fig. 2 is a perspective view for illustrating that the external memory is detached from the portable electronic bible terminal.

4 Fig. 3 is a plane view exhibiting the state of outstretched the portable electronic bible terminal according to the present invention.

5 Fig. 4 is a block diagram of the portable electronic bible terminal according to the present invention.

6 Fig. 5 is a control flow diagram for illustrating the operation of the portable electronic bible terminal.

7 *The description of reference numerals of the main elements in drawings*

8 1: portable electronic bible terminal 2: display device.

9 3: power key 4: direction handling key.

10 5: manu key 6: numeric key.

11 7: clear key 8: extpanding key.

12 9: speaker 10: earphone jack.

13 11: battery 12: battery charging jack.

14 13: memory card (e-Bible Card) 14: memory card removable part.

15 15: download socket 16: download jack.

16 17:electronics Bible shop(E.B.S. : Electronic Bible Shop)

17 18:electronics Bible vending machine(E.C.M. : e-Bible Card Vending Machine)

18 21: charger circuit 22: battery.

19 23: key input unit 24: CPU.

20 25: fixing internal memory 26: internal memory.

21 27: external memory 28: compressed data processing unit.

22 29: decoder 30: d/A converter.

23 31: amplififier 32: speaker.

24 33: driver circuit 35: internet.

Untitled

25 36: personal computer.

26 The present invention relates to the portable electronic bible terminal and operating method, particularly, to the portable electronic bible terminal and the operating method in which the voice information corresponding to the Bible text and/or the Bible text is stored in an inside.

27 The Bible is the plowing of the Christianity hitting from the main battery 1,500 year after the main part to 100 year for about 1,600 year with texture and is used with the different people (about 40 people). The Bible was classified into the old promise and new medicine. The old promise the new medicine was written as *** word as the Greece word. As to the old promise, the old appointment (or, a contract) a meaning, the new medicine the novelty appointment is a meaning.

28 such Bible says to be the classics, most read for a long time the best seller most very much sold and read. And the Bible of the various kind sells to Korea.

29 As to *** of this Bible, with recording the event before the Jesus moves it consists of 39 Keown like a next.

30 (1) rate *** (5 Keown): the genesis, book of Exodus, leuiticus, numbers, deuteronomy.

31 (2) it stands with history (12 Keown): the excitation collecting of female mouths after oviposition, sand shifter, , the Samuels phase. , and the Kings phase. , and the successive generations phase. A hemi, the ester it is, and S.

32 (3) the hour edge is built (5 Keown): the job, specimen, book of Proverbs, ecclesiastes, agar.

33 (4) prophecy books (17 Keown): in the executive director, ***, ***, elegy, S. gel, daniels, house shea, in a concavity, the mos, the o BaDya, Jonah, and U.S. are ***, Habakkuk, and a bar. It is parched up with , and ***.

34 Moreover, as to ***, with recording the event after the Jesus coming it consists of 27 Keown. And it classifies like a next.

35 (1) gospels (4 Keown): the matthew, gospel according to St. Mark, gospel according to St. Luke, john.

36 (2) it stands with history (1 Keown): acts.

37 (3) letter (21 Keown): ***, and the high lean electric conduction. ***, ***, ***, epistle of St. Paul to the Philippians, ***, *** electronics. ***, and *** former. ***, di book, ***, epistle of St. Raul to the Hebrews, ***, the Saint Peter former. It is sweet with ***, the Gump 1,2,3 west, and an existence.

38 (4) prophecy books (1 Keown): book of Revelation.

39 But as to the Bible of this paper material, because of being the size in which difficult that the beginners of the faith searched for the specific text and moreover, the character size was fixed in advance, the adult and children or the old people together could not use as one bible. Moreover, as to the Bible of one Keown, if necessary, the Bible more than 2 the language was inconvenient in a multipoint because of consisting of one language or 2 languages.

40 In order to cancel to inconvenient, the digital Bible is merchandised in the electronic bookshop (in other words, the cyber bookshop) through an internet. But only when certainly using the computer in which an internet is possible for an

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example, this digital Bible is. That is, after making use for the computer in which an internet is possible, it connects to an internet, the software and the digital Bible looking at the digital book in the specific electronic bookshop are downloaded together. A computer the Bible which download is used.

41 But it used a transportation including the bus, a subway and article difference etc. because a portability fell down, or this digital Bible had the disadvantage of looking while waiting for an anyone.

42 An object of the present invention is to provide the portable electronic bible terminal and the operating method in the above, it originates in order to solve the problem of the prior art mentioned, and for providing the digital Bible stored in the inside memory storage device through the display device.

43 It is another object of the present invention to provide the portable electronic bible terminal and the operating method a user can search the specific text of the Bible, and for controlling in order to fit moreover, the font size of the digital Bible for a user.

44 The or more, to accomplish the above objects, the portable electronic bible terminal is comprised of the key input unit authorizing the actuating signal which is for the digital Bible with reading and the central processing unit (CPU): controlling the whole operation of the portable electronic bible terminal the key input unit and the first memory: in which the content of the digital Bible is stored in the form of the voice information and/or a character and the display device indicating the content of the digital Bible the central processing unit and the driver circuit operating the display device the central processing unit.

45 Moreover, as to the operating method of the portable electronic bible terminal, a user presses the manu key provided to the portable electronic bible terminal and it is made of the step displaying the table of contents of the digital Bible to the display device, the step that a user selects the upper part or the title, and the step that it inputs the general of the Bible text. The step that a user selects the upper part or the title desires by using the manu key after below moving and moving to the desired title among the table of contents the direction handling key provided to the portable electronic bible terminal. The step that it inputs the general of the Bible text desires by using the numeric key provided to the portable electronic bible terminal and a user makes a choice for the general who desires by using with the manu key.

46 Hereinafter, referring to the figure, the configuration of the present invention and the attached operation are illustrated.

47 Fig. 1 is a perspective view showing the outer shape of the portable electronic bible terminal according to the present invention. Referring to Fig. 1, provided is the controller of the electronics Bible terminal in the right it has the size which the portable electronic bible terminal of the present invention is nearly identical with the Bible of the existing paper material, and it can fold.

48 Fig. 4 is a block diagram of the portable electronic bible terminal according to the present invention. Referring to Fig. 4, the portable electronic bible terminal of the present invention is comprised of the key input unit (23), the central processing unit (CPU) (24) controlling the whole operation of the digital Bible the key input unit (23), the fixing internal memory (25), the compressed data processing unit (28), the internal memory (26) and the external memory (27), the display device (2) indicating the content of the digital Bible the central processing unit (24), the driver circuit (33) operating the display device (2) the central processing unit (24), the decoder (29) decoding the output signal of the internal memory (26) or the external memory (27) according to the control signal of the central processing unit (24) and outputs, the digital analog converter (30) converting analog the output signal of the decoder (29) according to the control signal of the central processing

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unit (24), the amplifier (31) amplifying the output signal of the digital analog converter (30) to the predetermined amplification ratio, and the speaker (32) outputting the output signal of the amplifier (31) to the voice hearing consisting of the key input unit (23), the central processing unit (CPU) (24) controlling the whole operation of the digital Bible the key input unit (23), the fixing internal memory (25), the compressed data processing unit (28), the internal memory (26) and the external memory (27), the display device (2) indicating the content of the digital Bible the central processing unit (24), the driver circuit (33) operating the display device (2) the central processing unit (24), the decoder (29) decoding the output signal of the internal memory (26) or the external memory (27) according to the control signal of the central processing unit (24) and outputs, the digital analog converter (30) converting analog the output signal of the decoder (29) according to the control signal of the central processing unit (24), the amplifier (31) amplifying the output signal of the digital analog converter (30) to the predetermined amplification ratio, and the speaker (32) outputting the output signal of the amplifier (31) to the voice hearing. The manu key (MENU) (5) uses when searching for the desired text of the digital Bible. The expanding key (ZOOM) (8) enlarges the size of the letter font of the digital Bible or reduced. As to the, the content of the digital Bible is stored in the form of the voice information and/or a character. The compressed data processing unit (28) the apparatus processes in order to fit compressed data provided from an outside for the apparatus. The internal memory (26) and the external memory (27) data outputted in the compressed data processing unit (28) are stored. Here, the non-described code 21 is the charger circuit. And 22 is a battery.

49 Moreover, as to the fixing internal memory (25), the memory of the various kind became possible. But it used the ROM in the embodiment of the present invention. In the embodiment of the present invention, it is identical with the existing Bible in the fixing internal memory (25), as shown in table 2, *** and *** are inputted with the following table 1 according to the table of contents and the desired title is found and it can look at an anyone through the display device (2).

50 Moreover, as to the internal memory (26), the flash memory was used. But as to the external memory (29), the memory card of the credit card size having the International standard was used. In the present invention, this is named at "e-Bible Card".

51

52 Hereinafter, the operation of the attached portable electronic bible terminal is illustrated.

53 Firstly, as shown in Fig. 3, a user spreads the portable electronic bible terminal. A user permits the power through the power key (3) (S1). At this time, the power source is turned on if the power key (3) is once pressed with 2 the first publication. The power source is put out and if it once presses with 2 the first publication. In case the power source is provided, the logo shows up in the display device (2) with the voice (Sound). A logo can select the Jesus phase, the head subfacies, a crucifix etc.

54 Subsequently, a user presses the manu key (5) and a user displays the table of contents of the digital Bible in the display device (2) (S2). That is, if a user once presses the manu key (5), the central processing unit (24) of the portable electronic bible terminal controls so that the table of contents of the digital Bible shown in the table 1 and table 2 of the tri (Tree) form be displayed in the display device (2). At this time, the cursor (the non illustration) is set up in order to flicker in the Genesis title of ***.

55 Subsequently, a user selects the upper part or the title which presses the manu key (5) with the second opinion after below moving and moving among the table of contents to the desired title and desires the direction handling key (4) (S3).

56 Subsequently, a user inputs the general of the Bible text which desires by using

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the numeric key (6) and a user is the general who desires if a user presses the manu key (5) with 3 selected (S4). At this time, the clear key (7) is erased in case a user inputted a number as many in the wrong way. The exact number can be again inputted

57 Subsequently, a user can select the title which desires by using the cursor (non illustration) of the menu configuration shown in the display device (2) it moves as the other bible text.

58 Moreover, by using the direction handling key (4) in case of again to reading the Bible text of the text of the front or after after reading the current Bible text, a user can enforce the page up or the page down (S5).

59 Moreover, if the font of the letter displayed on a user is the when necessary, present, the display device (2) being small or big, it is determined, the extpanding key (8) is selected and the character size can be controlled (S6). Therefore, the part in which the old and the weak or the vision handicapped person want is augmented. It can reduce and the convenience of the use of can be increased.

60 The font size of the letter at this time is comprised of standard letter, enlargement 1, and 3 step of the enlargement 2. And the standard letter, the enlargement 1, and the order of the enlargement 2 repetitively circulate according to the times selecting the extpanding key (8). In this way, in the state where the letter font is expanded, it performs a movement to a left, and the right by using the power key (3) and manu key (5).

61 As another preferred embodiment of the present invention, as shown in Fig. 2, the memory card (e-Bible Card) of the credit card size is inserted into the portable electronic bible terminal of the present invention. The preaching of the pastor Nuclear Instrument Module, liked a hymn etc. is looked at with the storage or it can give. Even in this case, the fixing internal memory (25) is not used. And the internal memory (26) or the external memory (27) is used.

62 Moreover, as to a preaching and hymn, after downloading through the internet in the electronics Bible shop (EBS : Electronic Bible Shop) and storing, it uses, or it downloads through the electronics Bible card apparatus for bending (EMC :e-Bible Card Vending Machine) and it stores and it can use.

63 In the above, the portable electronic bible terminal and the operating method illustrated announce to be identically applied to the Buddhism scriptures or Coran, including, the book on religion and code of laws etc.

64 In the above, the hand-held viewing apparatus illustrated provides the effect as follows.

65 When the content of all Bibles is stored in the storage media (ROM) having inside the portable electronic bible terminal of the present invention as the digital file form and it always desires, it conveniently finds and it can look with first.

66 The desired Bible text can be simply quickly looked out. It can be very conveniently used to the beginners of the faith or the children or the old peoples with second.

67 The segment of the Bible text is enlarged or it reduces and it is very convenient to the old and the weak or the vision handicapped person with third.

68 The preaching of the pastor Nuclear Instrument Module, which desires because of selectively using the separate external storage media (e-Bible Card) a hymn etc. can be given about the cutting edge digital tone quality through the high quality speaker with fourth.

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Claim[1] :

69 The portable electronic bible terminal wherein it is comprised of the key input unit authorizing the actuating signal which is for the digital Bible with reading and the central processing unit (CPU): controlling the whole operation of the portable electronic bible terminal the key input unit and the first memory: in which the content of the digital Bible is stored in the form of the voice information and/or a character and the display device indicating the content of the digital Bible the central processing unit and the driver circuit operating the display device the central processing unit.

Claim[2] :

74 The portable electronic bible terminal of claim 1, wherein the key input unit is comprised of the expanding key which enlarges the size of the letter font of the clear key, erasing the direction handling key, moving the direction of the power key, and cursor to the phase . and the manu key, which uses when searching for the desired text of the digital Bible and numeric key, and the number misinputted through the numeric key and digital Bible or reduced.

Claim[3] :

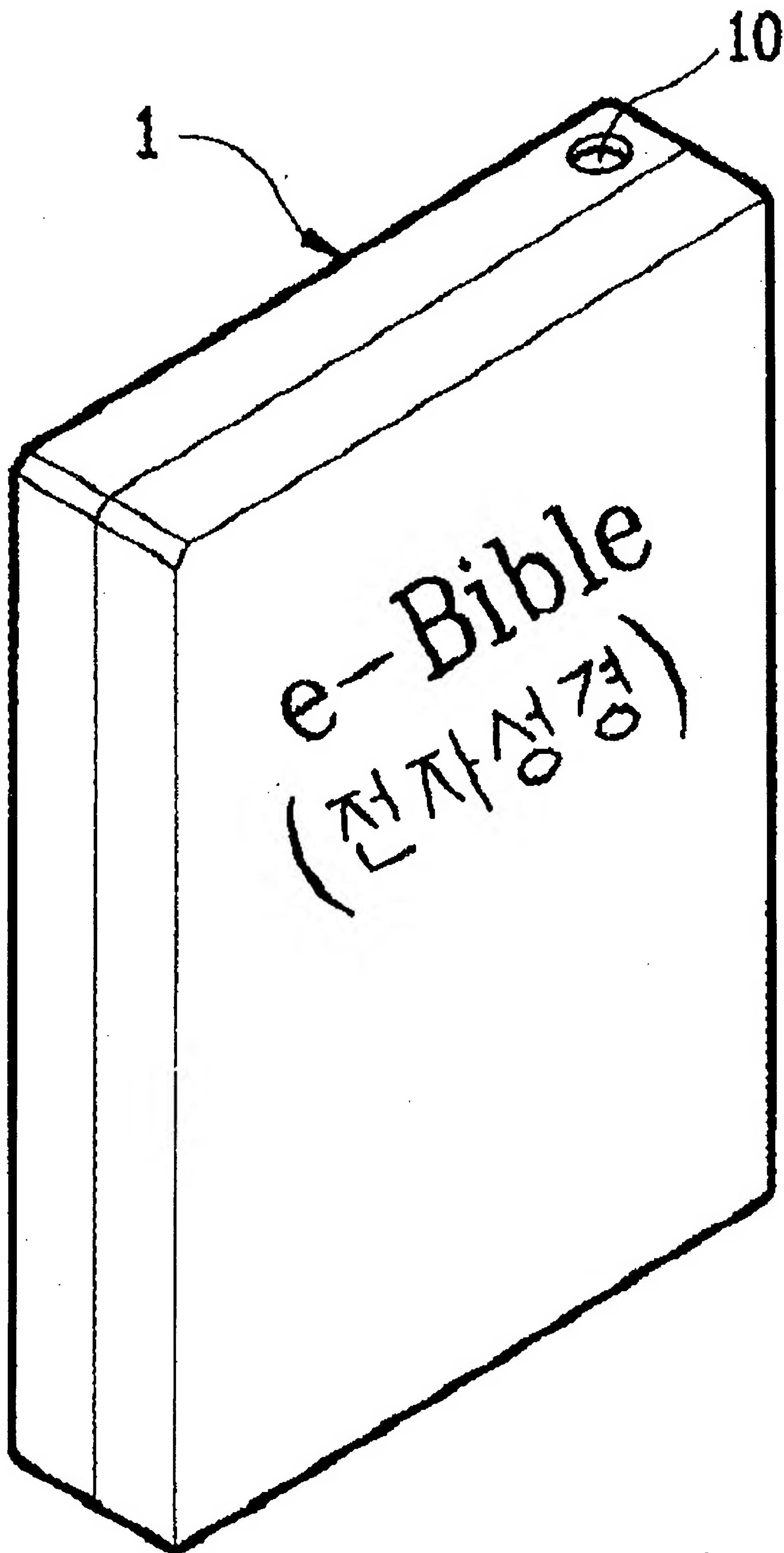
80 The portable electronic bible terminal of claim 1, wherein the speaker outputting the output signal of the decoder which decodes the output signal of the third memory: which the compressed data processing unit: which processes in order to fit compressed data provided from an outside for the apparatus and data outputted in the compressed data processing unit are stored and/or the second memory and the second memory or the third memory according to the control signal of the central processing unit and which the decoder output and the digital analog converter: converting analog the output signal of a decoder according to the control signal of the central processing unit and the amplifier amplifying the output signal of the digital analog converter to the predetermined amplification ratio and amplifier to the voice hearing is more included and the speaker is comprised.

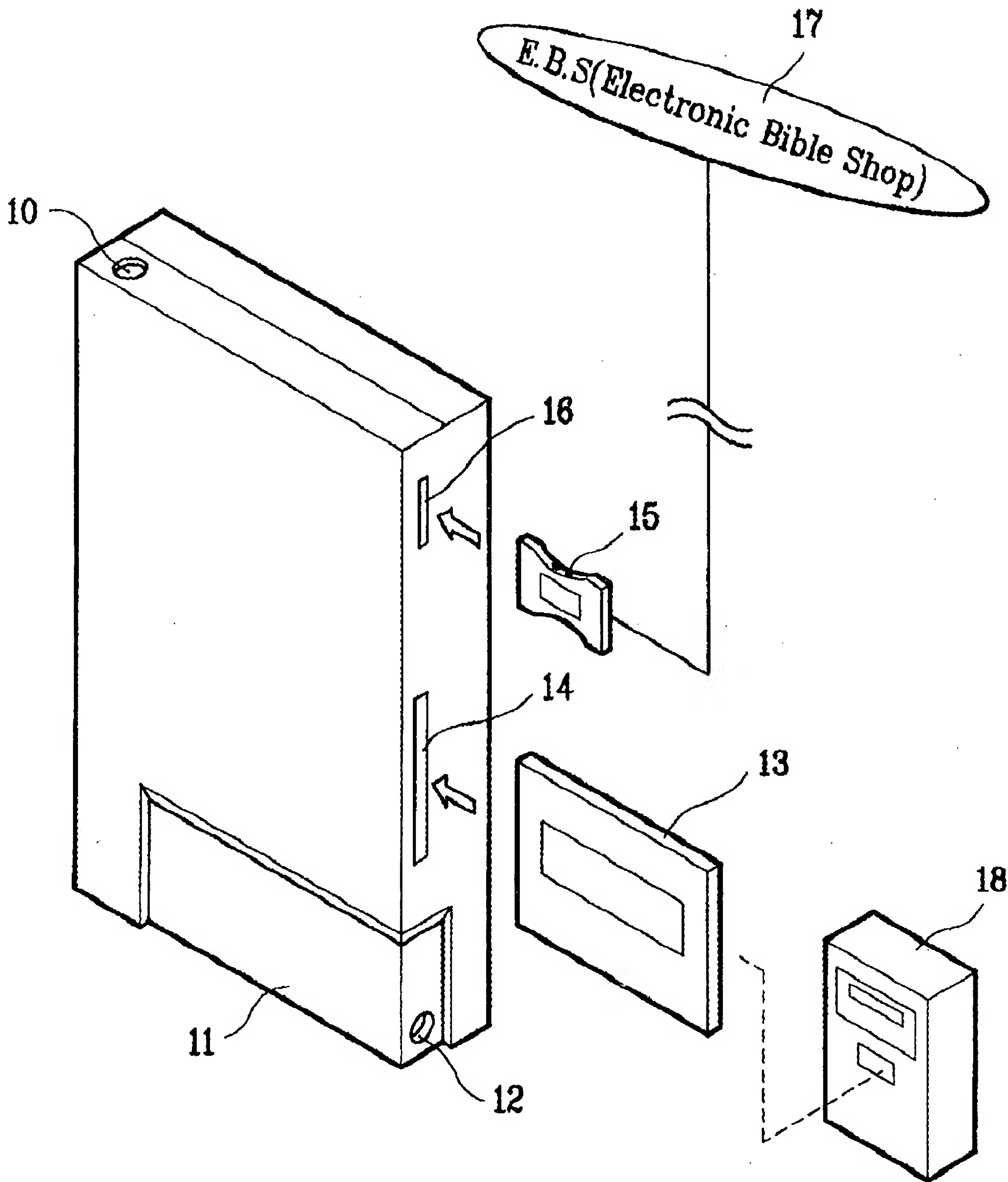
Claim[4] :

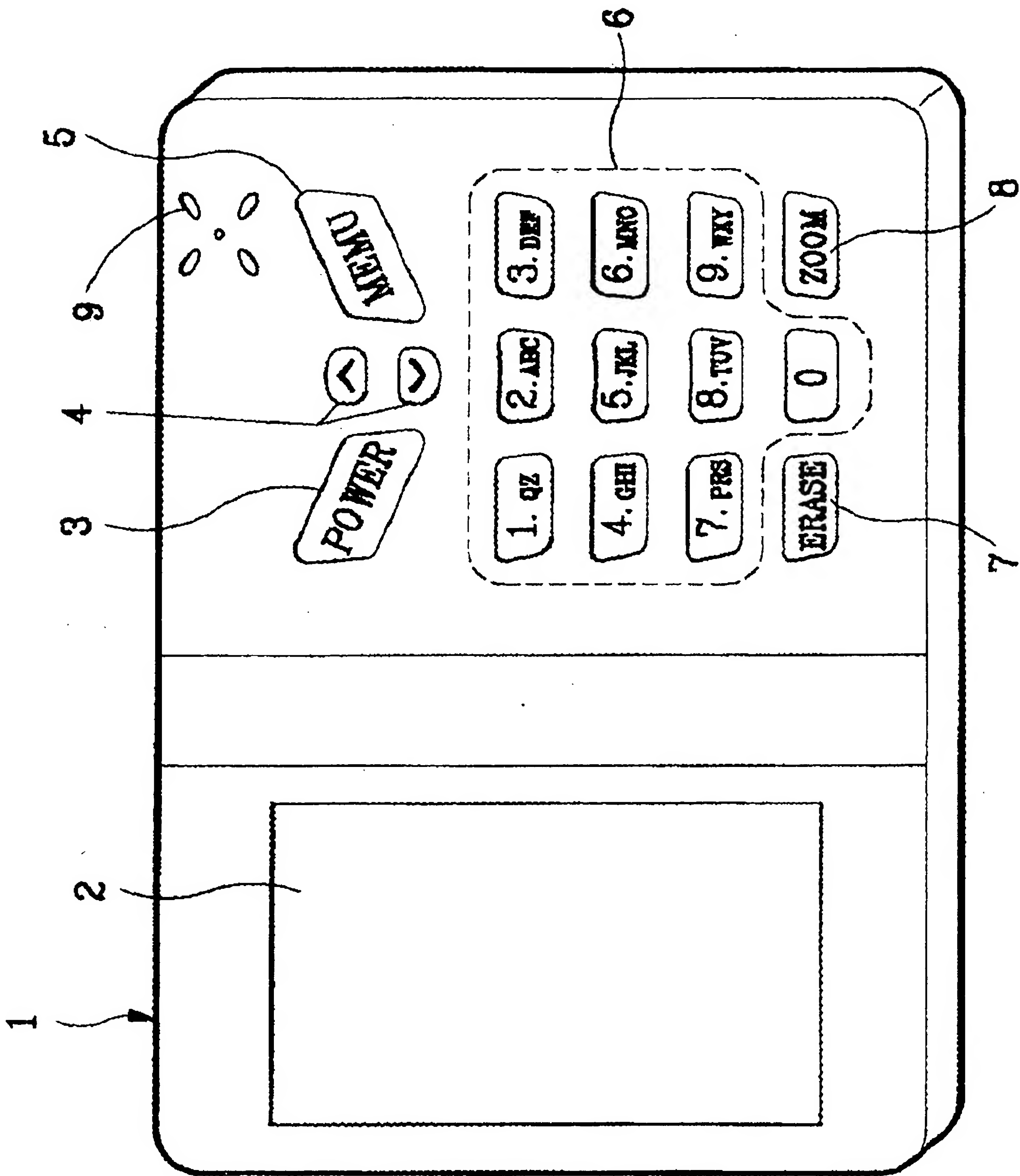
86 The operating method of the portable electronic bible terminal wherein: a user presses the manu key provided to the portable electronic bible terminal and it is made of the step displaying the table of contents of the digital Bible to the display device, the step that a user selects the upper part or the title, and the step that it inputs the general of the Bible text; the step that a user selects the upper part or the title desires by using the manu key after below moving and moving to the desired title among the table of contents the direction handling key provided to the portable electronic bible terminal; and the step that it inputs the general of the Bible text desires by using the numeric key provided to the portable electronic bible terminal and a user makes a choice for the general who desires by using with the manu key.

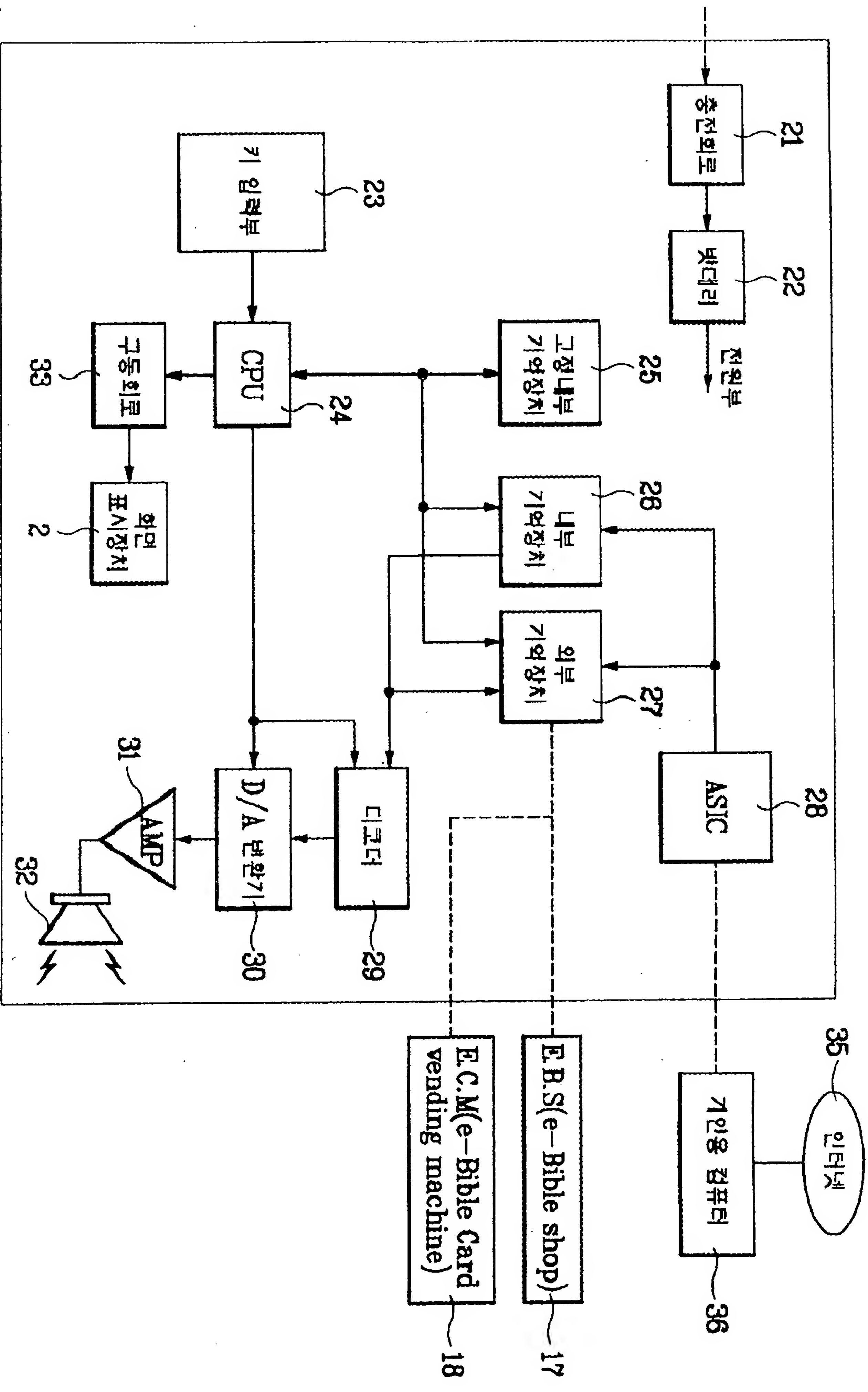
Claim[5] :

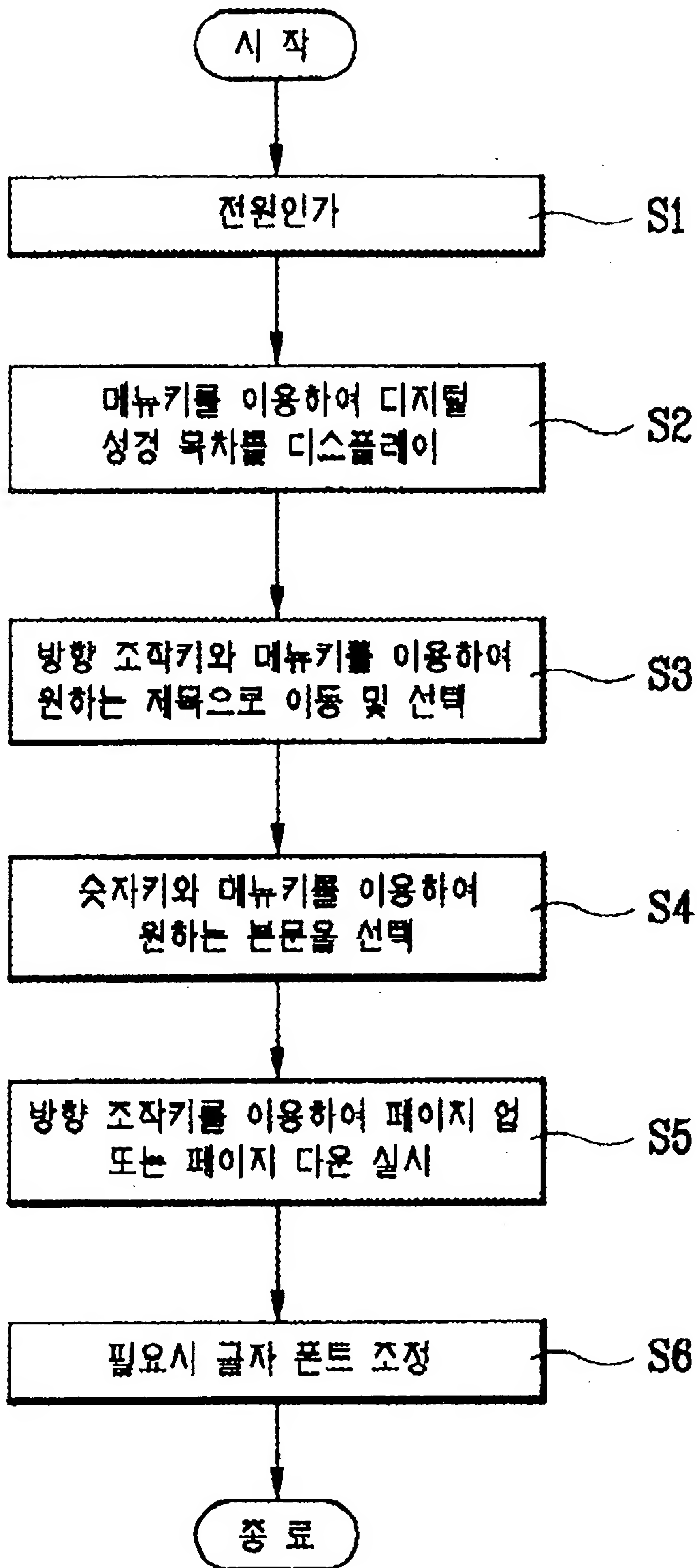
89 The operating method of the portable electronic bible terminal of claim 4, further comprising the step that it controls by using the expanding key which is the font size of the letter displayed on the step that again wants to read the Bible text of the text of the front or after after a user reads the current Bible text; and practices the page up or the page down a screen by using the direction handling key provided to the portable electronic bible terminal. And user is the when necessary present screen provided to the portable electronic bible terminal.











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UNITED STATES PATENT APPLICATION

of

Rex Fish

for

ELECTRONIC REFERENCE DEVICE

ELECTRONIC REFERENCE DEVICE

BRIEF DESCRIPTION OF THE DRAWINGS

[0001] In order that the advantages of the invention will be readily understood, a more particular description of the invention briefly described above will be rendered by reference to specific embodiments that are illustrated in the appended drawings. Understanding that these drawings depict only typical embodiments of the invention and are not therefore to be considered to be limiting of its scope, the invention will be described and explained with additional specificity and detail through the use of the accompanying drawings, in which:

[0002] Figure 1 illustrates an electronic reference device according to one embodiment of the present invention;

[0003] Figure 2 illustrates particular modules of an electronic reference device according to one embodiment of the present invention;

[0004] Figure 3 illustrates a highlighted word for cross reference on an electronic reference device according to one embodiment of the present invention;

[0005] Figure 4 illustrates a Cross Referencing module for scripture cross reference according to one embodiment of the present invention;

[0006] Figure 5 illustrates New Testament cross references displayed using a Cross Referencing module according to one embodiment of the present invention;

[0007] Figure 6 illustrates a Cross Referencing module for manual cross reference according to one embodiment of the present invention;

[0008] Figure 7 illustrates manual cross references displayed using a Cross Referencing module according to one embodiment of the present invention;

[0009] Figure 8 illustrates a Notes module for editing notes according to one embodiment of the present invention; and

1 [0010] Figure 9 illustrates an Arranging module for arranging notes according to one
2 embodiment of the present invention.
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DETAILED DESCRIPTION OF THE INVENTION

[0011] Reference throughout this specification to “one embodiment,” “an embodiment,” or similar language means that a particular feature, structure, or characteristic described in connection with the embodiment is included in at least one embodiment of the present invention. Thus, appearances of the phrases “in one embodiment,” “in an embodiment,” and similar language throughout this specification may, but do not necessarily, all refer to the same embodiment.

[0012] Furthermore, the described features, structures, or characteristics of the invention may be combined in any suitable manner in one or more embodiments. One skilled in the relevant art will recognize, however, that the invention can be practiced without one or more of the specific details, or with other methods, components, materials, and so forth. In other instances, well-known structures, materials, or operations are not shown or described in detail to avoid obscuring aspects of the invention.

[0013] The present invention relates to an electronic reference device for facilitating the study of a particular topic. In one embodiment, the electronic reference device comprises a cross referencing module configured to cross reference at least one reference material stored on the electronic reference device, a highlighting module configured to allow a user to highlight a particular phrase or word, a notes module configured to store a note corresponding to the phrase or word, and an arranging module configured to provide a date indicating when the highlight and note was made and to arrange the highlight and note according to date, topic, event, etc.

[0014] In one embodiment, the electronic reference device is configured to cross reference other writings and images from other authors, highlight text, allow the user to insert notes including personal thoughts and knowledge related to the particular topic, arrange all changes, highlights, and personal thoughts and knowledge by date, event, and topic, show all passages related to the topic based on pre-colored text, select word(s) and

1 sections for pronunciation, definition, and audio, and purchase similar writings and options
2 from other authors.

3 [0015] Figure 1 illustrates an electronic reference device configured to store gospel
4 information according to one embodiment of the present invention. The electronic reference
5 device is configured to store gospel information relating to The Bible, The Book of Mormon,
6 The Pearl of Great Price, The Doctrine and Covenants, The Joseph Smith Translation,
7 Priesthood and Relief Society manuals, gospel magazines, hymns, newspapers, and any other
8 type of gospel related electronic writings or images.

9 [0016] All documents may be available in any translation and any version. For
10 instance, The Bible may be translated into Spanish, German, French, and versions other than
11 The King James version may be available, such as the version used by Jehovah Witnesses.
12 Additionally, the electronic reference device may be configured to display the writings in
13 more than one language at a time. As an example, if the user is learning Spanish, the
14 electronic reference device displays the writing in both English and Spanish, the Spanish
15 words being displayed either above, next to, or below the English version.

16 [0017] Figures 2-7 illustrate various embodiments of the cross referencing module on
17 the electronic reference device. In one embodiment, the cross referencing module is
18 configured to cross reference all documents stored on the electronic device. Accordingly,
19 passages, key words, topics, and phrases of The Bible can be cross referenced with similar
20 passages, key words, topics, and phrases from The Book of Mormon, The Pearl of Great
21 Price, Doctrine and Covenants, The Joseph Smith Translation, Priesthood and Relief Society
22 manuals, gospel magazines, hymns, and any other type of gospel related electronic writings
23 or images. The cross referencing module allows the user to improve research and knowledge
24 by comparing the various explanations from each type of gospel reference tool.

25 [0018] The user can initiate the cross referencing module after using the highlighting
26 module to highlight a particular phrase or passage. It is noted that the highlighting module is
27 configured to allow a user to highlight, underline, mark, block, strike, bold, or italicize

1 particular passages, words, phrases, etc. of the document. The highlighting module provides
2 a multiplicity of colors to choose for highlighting the passages. Additionally, the
3 highlighting module provides options for defining a highlighting method such as underlining,
4 circling, blocking, etc. The user can highlight passages and define a highlighting method and
5 create a legend specifying which topics relate to which colors and for identifying highlighted
6 passages according to the content within the passage. For instance, the legend may indicate
7 that all red highlighting represents the words of any member of the Godhead; blue represents
8 a story line, chronology, action, movement, what is happening; purple represents genealogy;
9 orange represents spiritual gifts; green represents teachings of prophets; yellow represents
10 parables, allegories, and similes; pink represents words of praise to God; and black represents
11 words and deeds of Satan. Other colors may be used, and combinations of colors may be
12 used for passages that represent more than one topic.

13 [0019] The passages may be installed, or programmed into the electronic device pre-
14 highlighted according to predetermined topics and colors with an option for the user to add
15 topics and change highlight colors if the user feels that the passage refers better to a different
16 topic. With the passages highlighted, the user may specify a particular topic to read about
17 and the electronic device gathers and displays only those passages that relate to that particular
18 topic. In one embodiment, the user simply chooses a topic from the legend and only those
19 particular passages that have been highlighted as referring to the chosen topic are presented
20 to the user, thus eliminating from view all other passages that do not relate to the chosen
21 topic.

22 [0020] In the illustrated embodiment(s), the electronic reference device is configured
23 to display a plurality of available writings that may be searched for cross references. The
24 cross referencing module searches all documents and images stored on the electronic
25 reference device and provides a list of all passages that refer to the chosen passage, word,
26 phrase, etc. The list of passages may be provided as links to visit the passage or the list may
27 be in the form of the passages themselves.

1 [0021] The electronic reference device may be configured to automatically update the
2 available cross reference tabs depending on the verse that the user is reading. For instance, if
3 the user is reading chapter 1, verse 2 of Genesis (as illustrated in Figure 3), and highlights a
4 particular word or phrase, the cross referencing module automatically scans the available
5 writings stored on the electronic reference device for the writings that reference the particular
6 word or phrase. After scanning all writings, the cross referencing module may be updated to
7 display only those writings that refer to the highlighted word or phrase. If a writing stored on
8 the electronic reference device does not refer to the particular passage, the writing may be
9 removed from the cross referencing module.

10 [0022] The user may view maps that reference a particular passage, word, or event.
11 Specifically, if the user highlights a particular passage relating to the tomb where Jesus was
12 laid, the user can view a map indicating the location where it is believed that Jesus' tomb
13 exists. The ancient maps can be compared with current maps. The maps stored on the
14 electronic reference device can be used for field research such that a person can view the
15 maps while actually at that specific location. The maps may include grid lines to allow the
16 user to zoom in and out of specific areas on the map. The user can view distances from one
17 location on the map to another location, or insert a location and determine distances.

18 [0023] After the cross reference writings are scanned and displayed, the user can
19 choose a particular writing to view the cross reference (See Figure 4). In the illustrated
20 embodiment, the user has chosen to view all references to the word "darkness" found in the
21 New Testament of the Bible. The user may view each passage one after another or link to
22 the individual passages one at a time (See Figures 5-7).

23 [0024] The notes module allows the user to add notes of personal thoughts and
24 knowledge related to the highlighted word or passage and view selected notes (See Figure 8).
25 For example, when the user is reading about The Last Supper, the user highlights a passage
26 relating to the prayer offered and touches a "notes" tab. A blank screen appears and the user
27 is allowed to comment on his/her feelings relating to the passage. The arranging module

1 stores the date of the highlight and note, which allows the user to see when the note was
2 made. Additionally, the user may configure the arranging module to mark notes, comments,
3 and highlights according to events. For example, the user may indicate that all notes,
4 comments, and highlights from nine o'clock in the morning until noon, every Sunday, are
5 made during church meetings, that all notes, comments, and highlights from six o'clock in
6 the morning until seven in the morning are made during seminary, or that all notes,
7 comments, and highlights from June 2004 through June 2006 are made while serving a
8 mission. Combinations of such arranging methods may be used.

9 [0025] The arranging module may be searchable by date, time, topic, event, etc. to
10 allow the user to search notes and passages that were made and highlighted during those time
11 periods (See Figure 9).

12 [0026] After the passage, or word, has been highlighted or chosen, the user may
13 press a button, or tab, to have the electronic device read the passage. An internal speaker
14 may be used to transmit the audio or the electronic device may comprise a headphone jack or
15 speaker jack. As discussed above, the electronic reference device is configured to display the
16 writings in more than one language. The electronic reference device can read the passages in
17 any of the languages. As the writings are read to the user, the words may highlight as they
18 are read to allow the user to follow along. Individual words can be chosen and a language
19 may be chosen to have the word read in that particular language.

20 [0027] The electronic reference device may further comprise a searching means that
21 allows the user to speak into the electronic reference device a particular passage, phrase, or
22 word, and the electronic reference device presents the results of the request to the user.

23 [0028] The electronic reference device may be connected to an internet connection to
24 download other books, images, passages, and updates. A remote processing unit, server, or
25 computer may be used to communicate with the electronic reference device to obtain
26 information about the types of topics that the user has been studying. The remote processing
27 unit gathers and transmits to the electronic reference device a list of books, images, passages,

1 and updates relating to the topics that the user has been studying and, which may be of
2 interest to the user. An update module on the electronic reference device stores the lists and
3 if the user wants to purchase one of the recommended books, images, passages, etc., the user
4 can simply choose which ones to download.

5 [0029] As an example, if the user has been studying about forgiveness, the remote
6 processing unit receives information from the electronic reference device that the user has
7 been reading passages related to forgiveness. The remote processing unit gathers recent
8 talks, passages, books, etc. relating to the topic of forgiveness and provides a list to the
9 electronic reference device.

10 [0030] It is understood that the above-described arrangements are only illustrative of
11 the application of the principles of the presently illustrated invention. The present invention
12 may, however, be embodied in other specific forms without departing from its spirit or
13 essential characteristics. The described embodiments are to be considered in all respects only
14 as illustrative and not restrictive. The scope of the invention is, therefore, indicated by the
15 appended claims rather than by the foregoing description. All changes which come within
16 the meaning and range of equivalency of the claims are to be embraced within their scope.

17 [0031] For example, although the specification discusses the use of the electronic
18 reference device for gospel reference, it is envisioned that the electronic reference device
19 may be used for any type of information. For example, it is envisioned that doctors can use
20 the electronic reference device for referring to a plurality of books, studies, journals,
21 speeches, images, etc. The electronic reference device may be used for school text books,
22 cook books, telephone books, dictionaries, and thesauruses.

23 [0032] The electronic reference device may be configured to store travel logs for
24 truckers to store all trucking information, such as when stops were made to check load,
25 refuel, sleep, make repairs, perform maintenance, sleep, etc. The information may be
26 transmitted or shown to check point officials, rather than showing a log book.

27

1 [0033] It is also envisioned that the software involved in performing these functions
2 be compatible with all types of electronic reference devices such that the software can be
3 downloaded or transmitted over an internet connection.

4 [0034] Finally, the electronic reference device may be configured to store blue print
5 information. Specifically, the electronic reference device may store architectural plans, land
6 development plans, electrical plans, plumbing, heating, ventilation and air conditioning,
7 utility lines, etc. The user can go from job site to job site with a small compact version of the
8 plans rather than carrying thick cumbersome paper plans. The plans can be stored on disks
9 configured to connect to the electronic device.

10 [0035] Thus, while the present invention has been fully described above with
11 particularity and detail in connection with what is presently deemed to be the most practical
12 and preferred embodiment(s) of the invention, it will be apparent to those of ordinary skill in
13 the art that numerous modifications, including, but not limited to, variations in size,
14 materials, shape, form, function and manner of operation, assembly and use may be made,
15 without departing from the principles and concepts of the invention as set forth in the claims.
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1 What is claimed is:

2 1. An electronic reference device comprising:
3 a cross referencing module configured to cross reference at least one
4 reference material stored on the electronic reference device;
5 a highlighting module configured to allow a user to highlight a particular
6 phrase or word;
7 a notes module configured to store a note corresponding to the phrase or
8 word; and
9 an arranging module configured to provide a date indicating when the
10 highlight and note was made.

11
12 2. The electronic reference device according to claim 1, wherein the
13 electronic reference device is configured to store gospel related references.

14
15 3. The electronic reference device according to claim 1, wherein the
16 highlighting module is configured to provide a plurality of colors for highlighting the
17 phrase or word, and wherein the highlighting module is configured to display only those
18 phrases or words highlighted with a chosen color and eliminate from view those phrases
19 or words that are not highlighted or that are highlighted in a different color than the
20 chosen color.

21
22 4. The electronic reference device according to claim 1, wherein the
23 arranging module is configured to mark a highlight, or a note, with an event.

24
25 5. The electronic reference device according to claim 1, wherein the
26 arranging module is configured to mark a highlight, or a note, with the date, according to
27 predetermined time frames.

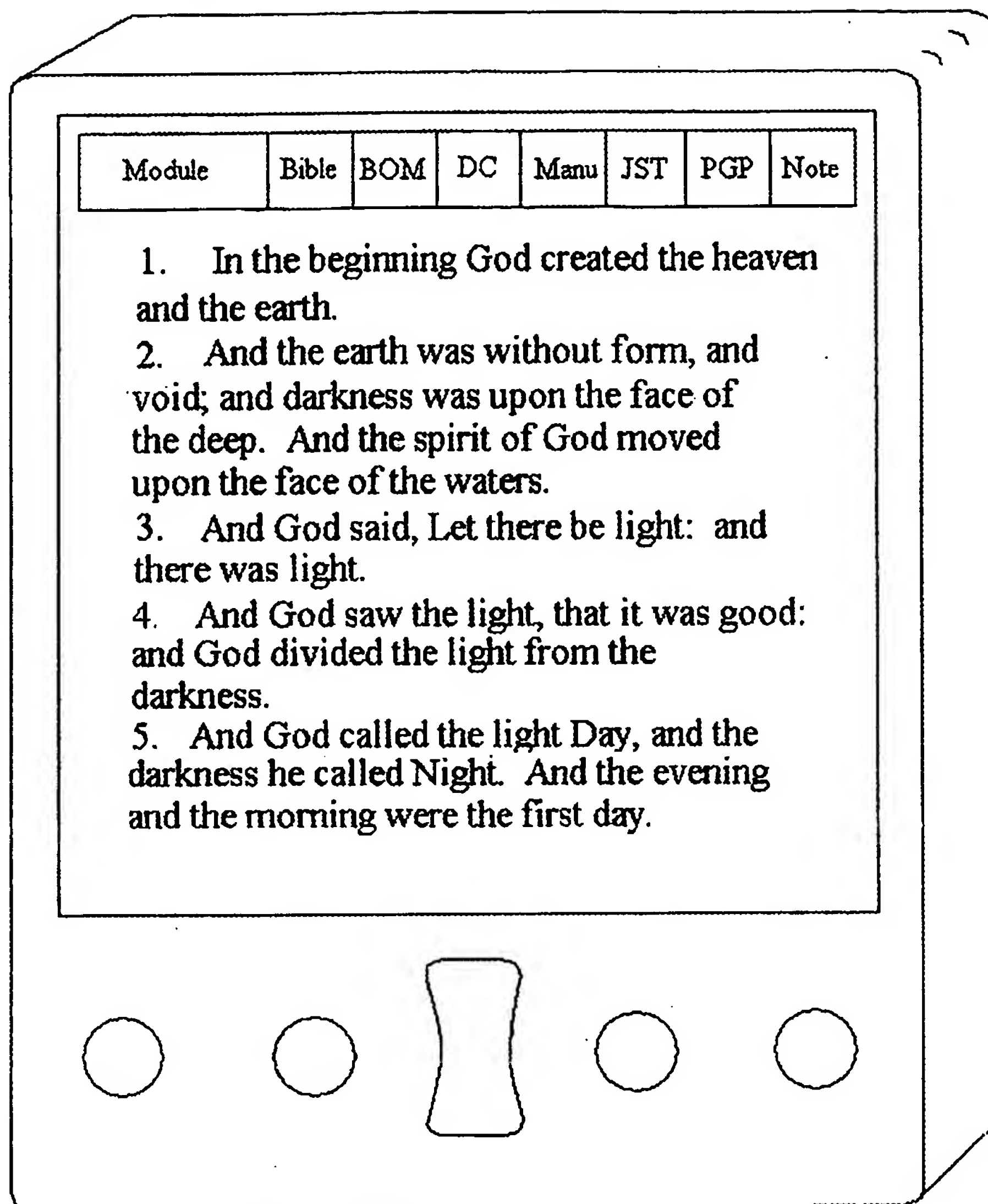


Figure 1

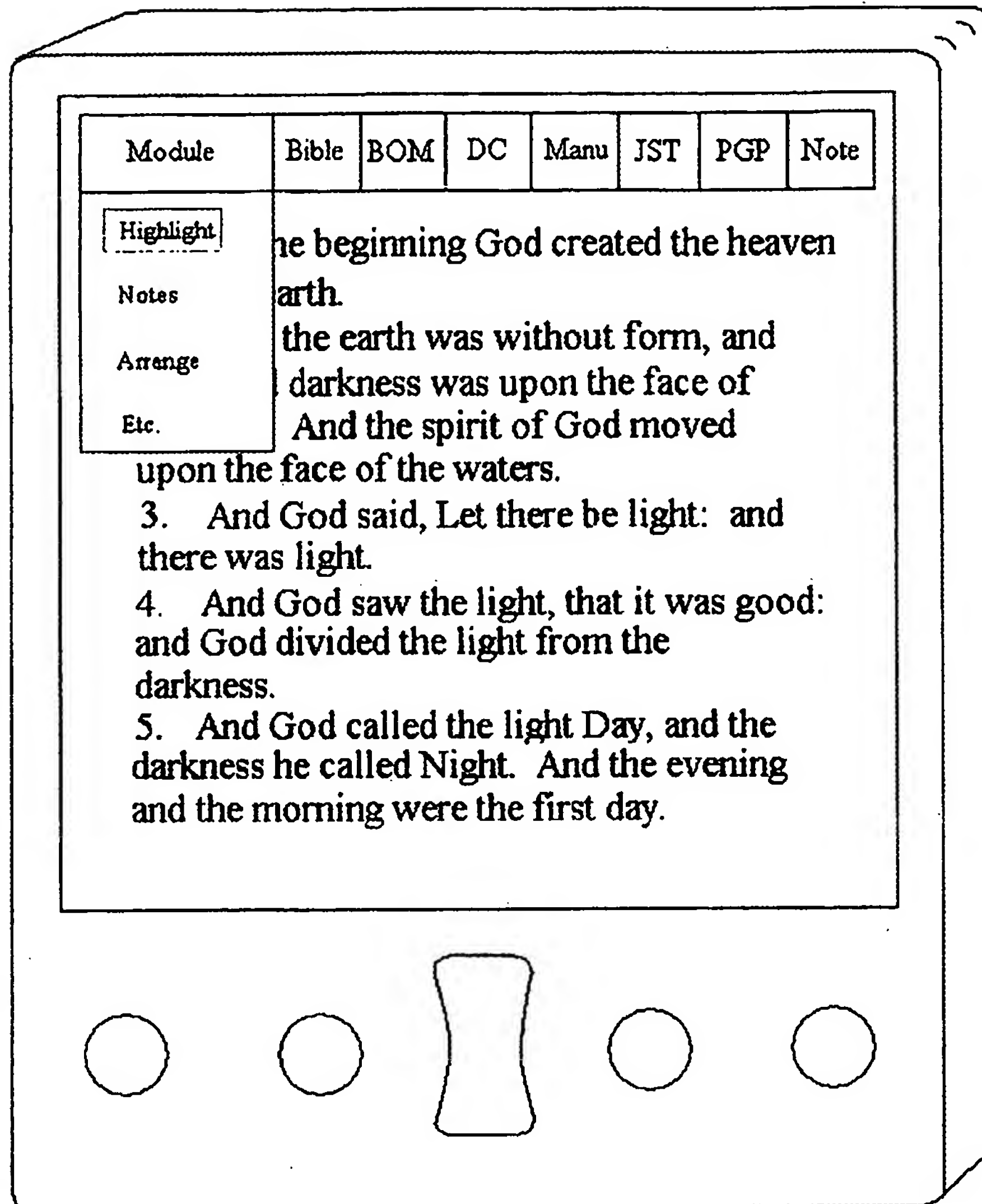


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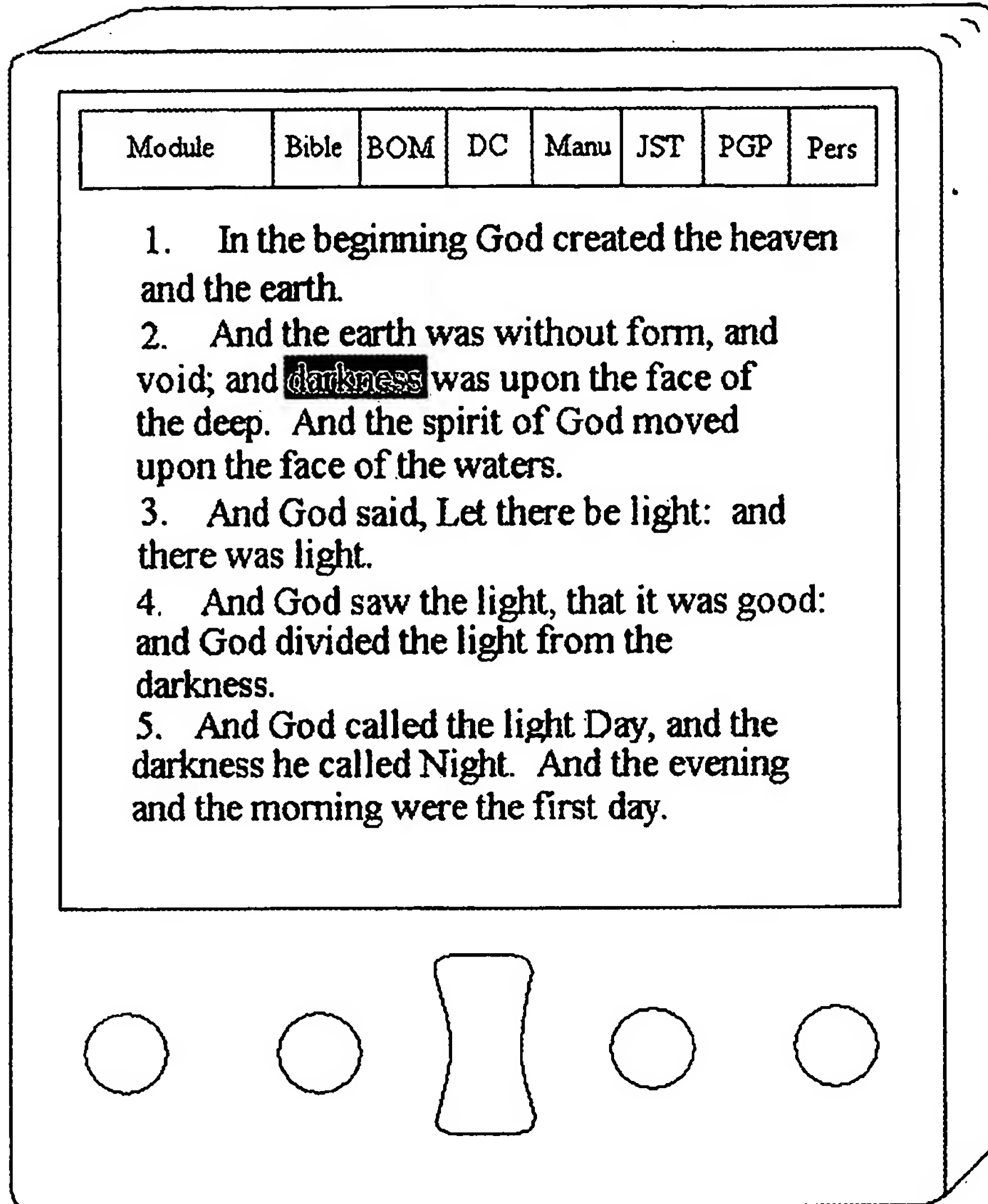


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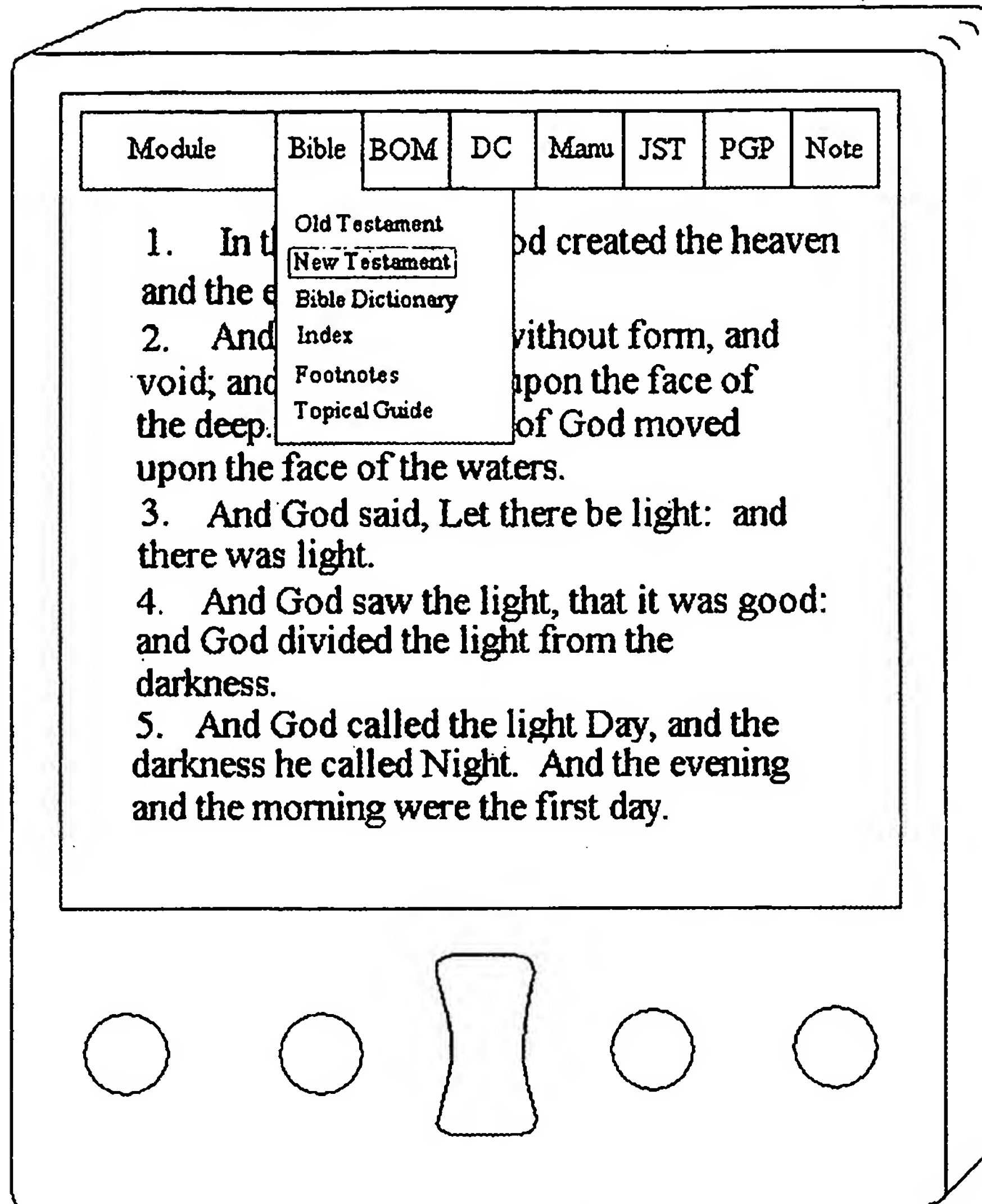


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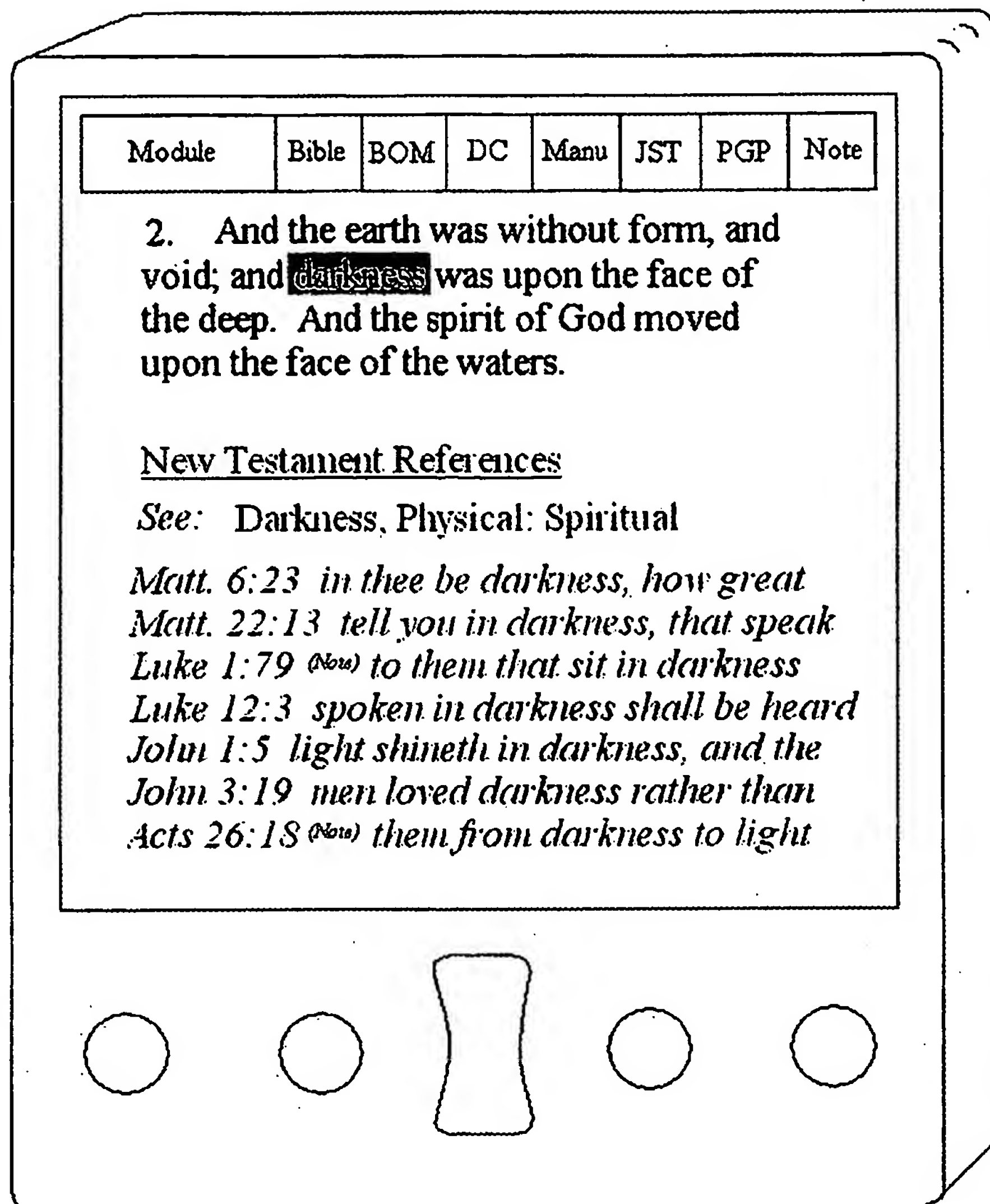


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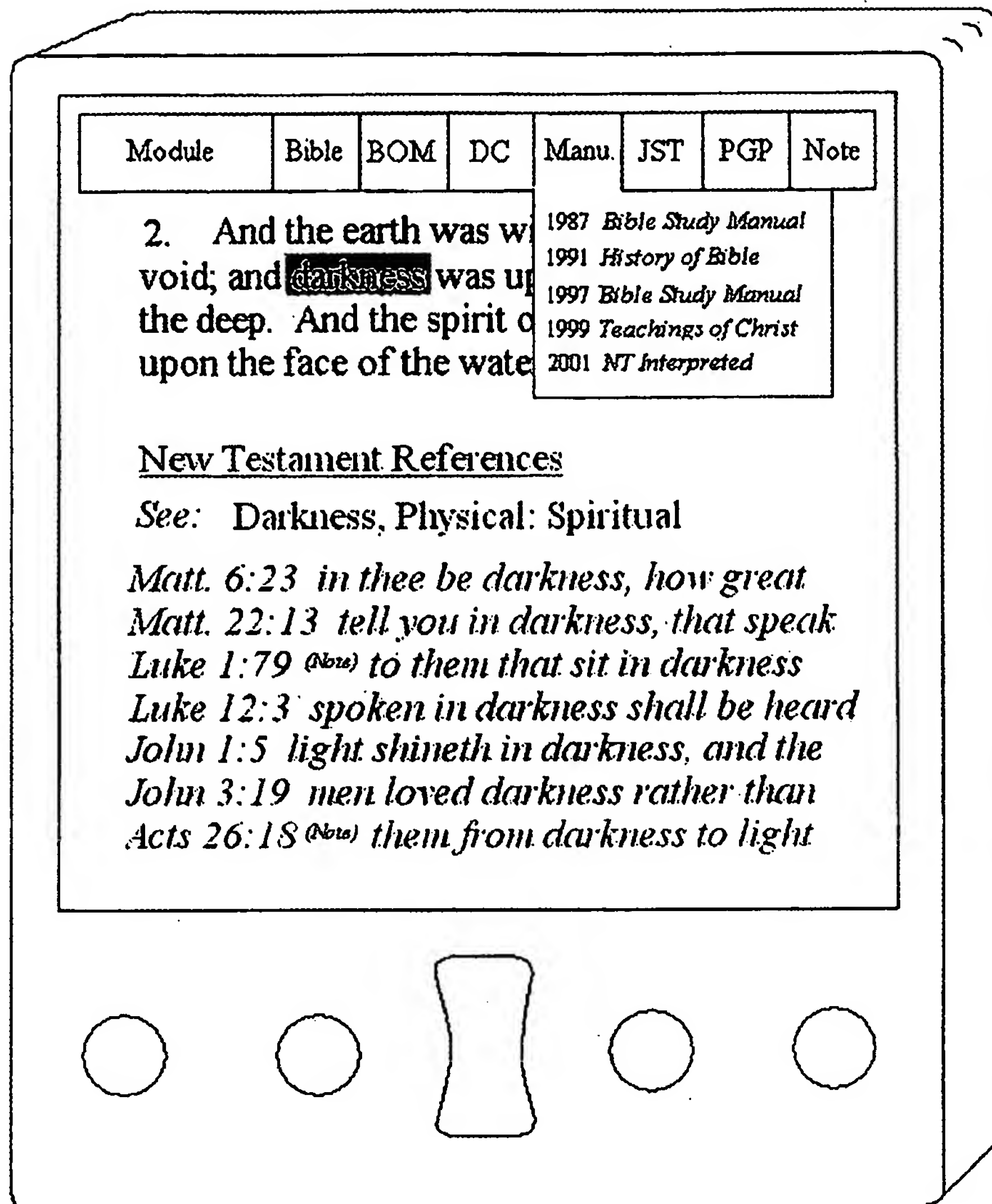


Figure 6

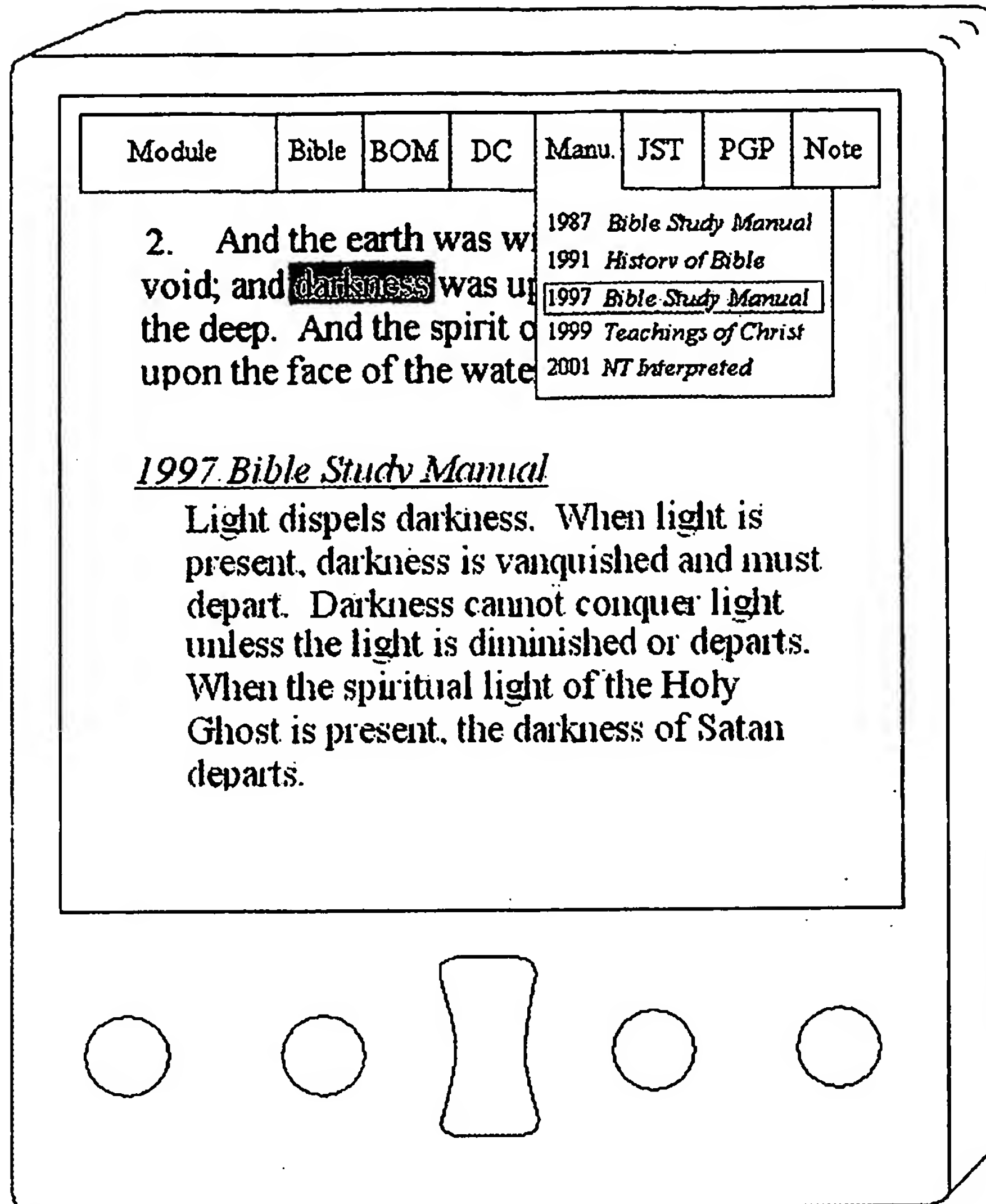


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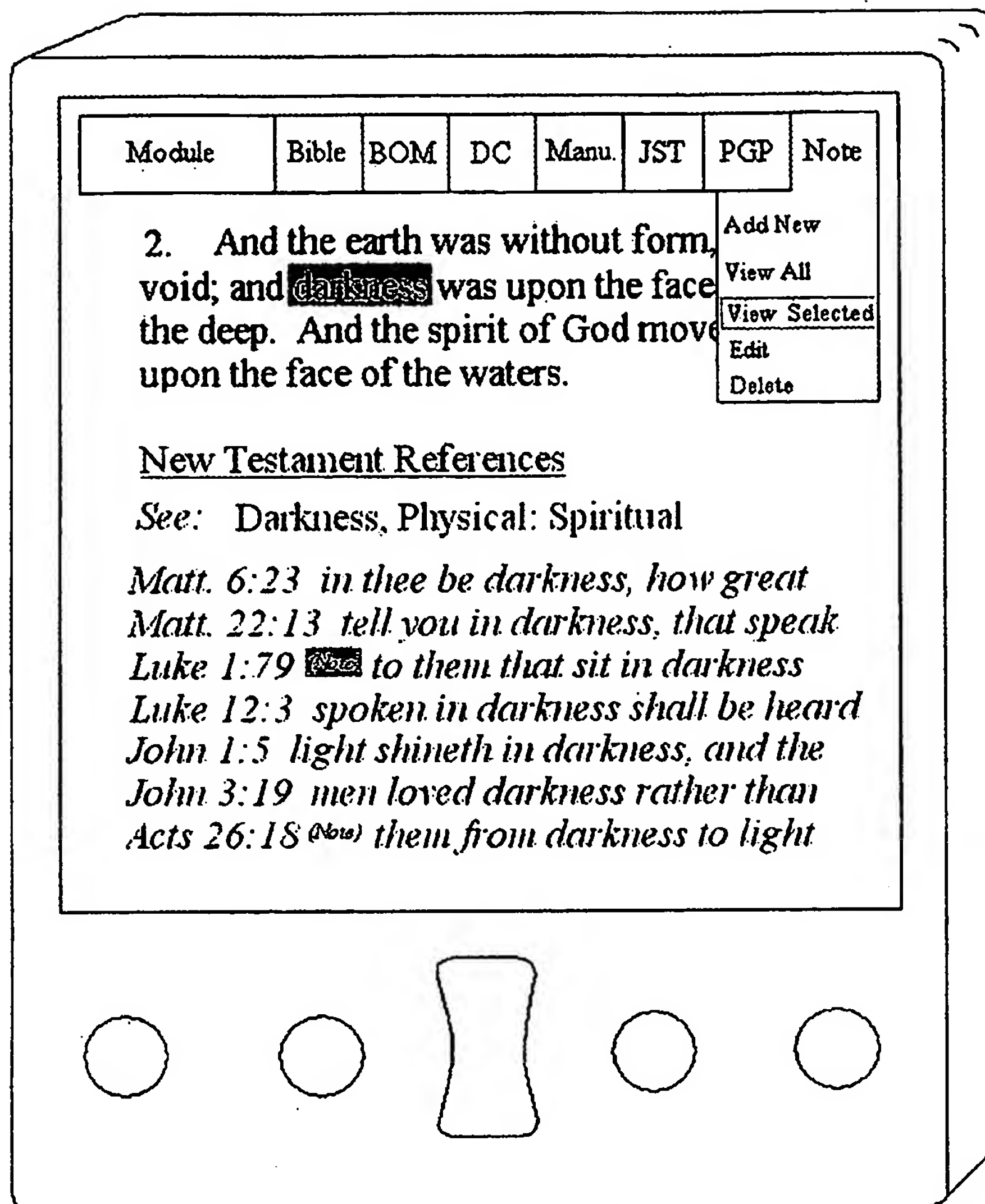


Figure 8

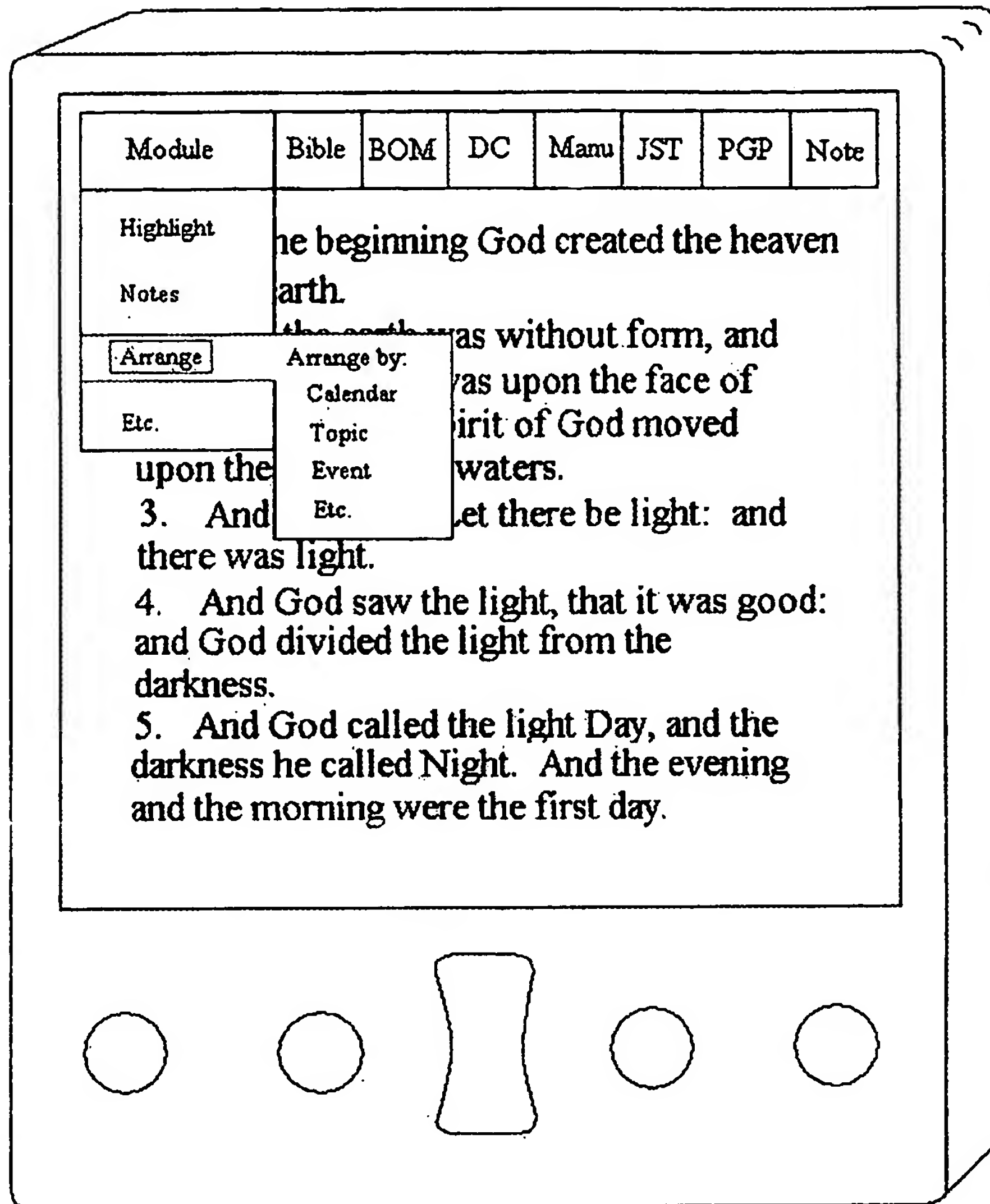


Figure 9

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MegaVoice System

MegaVoice players are part of a unique audio system designed to ensure that messages placed on our players are secure. It is not a typical audio playback device like a tape-recorder or MP3 player.

You can be confident that the message intended for the end user will be heard, as you want it heard, without being erased or recorded over. Our proprietary format ensures that the intended message cannot be changed unless a replacement message has been formatted and programmed via our three-step system.

[MegaVoice System \(1mb, pdf\)](#)

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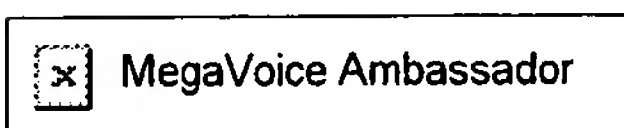
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MegaVoice Ambassador



MegaVoice Ambassador

view: [front](#) | [side](#) | [back](#)

Width: 64mm

Height: 112mm

Depth: 17mm

The MegaVoice Ambassador is our solar powered re-programmable digital audio player capable of holding up to 160 hours of recorded messages.

- Small enough to fit in your hand
- No internal moving parts
- Solar panel with rechargeable batteries
- Rugged and water resistant
- Re-programmable secure message, up to 160 hours

- Language and message according to customer's specifications, or from MegaVoice's Audio Library
- Built-in speaker, earphone, & external speaker port
- On/Off, scrolling, pause & variable volume control
- 9 volt DC power jack for recharging

Frequently Asked Questions

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Frequently Asked Questions

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- [What does "secure message" mean?](#)
- [Can I change a message I have previously loaded unto a MegaVoice player?](#)
- [How are MegaVoice players powered?](#)
- [How long will the rechargeable batteries last?](#)
- [How long does the player take to charge with the solar panel?](#)
- [Can the solar powered player also be charged with a charger?](#)

Why use MegaVoice rather than MP3 technology?

The hardware and software development process of MP3 technology is quite expensive. Consequently, the prices of MP3 products are significantly higher than those of MegaVoice. MegaVoice advanced compression technology allows us to fit more information onto the memory chip reducing overall memory costs.

MP3 players are intended for recording and playing back music downloaded from the Internet. MP3 content can be changed at will by the end user, which means your message is open to tampering. MegaVoice players on the other hand are "message secure" because they are designed to play messages that cannot be changed by end users of the MegaVoice players.

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Are MegaVoice players difficult for non-readers to operate?

A simple scrolling feature makes the MegaVoice player easy to use by anyone, anywhere in the world. Easy-to-understand icons indicate: on/off, volume control, pause and scrolling. Operation of the unit has proven intuitive even to non-readers and those not familiar with technology.

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What is the message length a MegaVoice player can hold?

MegaVoice players can accommodate messages up to 160 hours. See individual product pages for player model specifics.

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Can I load any language on the player?

MegaVoice's exceptional voice compression technology is able to support narration in just about any language.

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Can music be played on a MegaVoice player?

MegaVoice players are not specifically designed for music playback but they do 'support' music, drama, multiple-voiced narration and sound effects.

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Can I use an external speaker with a player?

MegaVoice's Ambassador player comes equipped with a standard 3.5mm phone jack. For private listening, connect earphones with a stereo plug to phone jack.? (A mono plug will only allow listening through one ear.) External, self-powered, amplified speakers, such as computer speakers, can be plugged into the phone jack for louder volume and group listening.

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Can I use my own sound system amplifier?

The Ambassador may be connected to a large sound system for playing to a large group. The Ambassador's line out impedance is 32 ohms.

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How do I turn the player on and off?

Please refer to "Operating Instructions" link on individual product pages for operating instructions specific to each model.

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What is a "fixed-message" player?

Messages on the "fixed-message" players cannot be changed in the field once they are loaded into the players in production. This feature ensures that the player and message you supply to the field will not be changed.

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How do I load my message on a MegaVoice "fixed message" player?

The MegaVoice Messenger is our "fixed message" player.? Send us your recorded audio file message or choose a pre-recorded message from our Audio Library.? MegaVoice will do the rest.

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What is a "re-recordable message" player?

Re-recordable players like the "Ambassador" carry an onboard chip that can be re-programmed by MegaVoice or by MegaVoice clients who have purchased a MegaVoice Scribe field programmer.? Messages cannot be changed by end users of the players, making your message secure from tampering by end users.

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What does "secure message" mean?

The ability to protect the integrity of your message is one of the most important features of MegaVoice players. A secure message cannot be erased or recorded over by end users. MegaVoice clients, however, can use MegaVoice secure messaging accessories to change messages they have previously programmed into re-recordable players.

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Can I change a message I have previously loaded unto a MegaVoice player?

MegaVoice clients can change messages they have previously loaded onto their re-recordable players by utilizing a MegaVoice message processor and field programmer, "the Scribe." The players can only be programmed using "the Scribe," our own MegaVoice propriety programmer, and will only play MegaVoice formatted messages.

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How are the MegaVoice players powered?

The Ambassador is powered by rechargeable button cell batteries that are recharged by the solar panel or a 9V DC charger. The Messenger is powered by replaceable button cell batteries.

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How long will the rechargeable batteries last?

On the Ambassador, a fully charged set of batteries will play continuously for around 10 hours. The batteries do not need to be fully charged for the player to operate. The button cell batteries on the Messenger will play from 4 to 10 hours, depending on the type of Messenger chosen at time of order.

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How long does the player take to charge with the solar panel?

If the Ambassador batteries are fully depleted, they will take around 14 hours to fully charge using the 9v charger or from direct sunlight. We recommend that when the ambassador is not in use, it be left 'upside-down' with the solar panel facing upward thus allowing the player to continually receive a charge. The solar panel receives energy from the sun; a light source (60 to 100 watt incandescent light or halogen light) will also charge the units at a distance of 6 to 12 inches from the solar panel. Please note that fluorescent lighting does not provide any energy to charge the batteries.

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Can the solar powered player also be charged with a charger?

Please refer to “Operating Instructions” link on individual product pages for operating instructions specific to each model.

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Christian Applications

MegaVoice produces a line of reliable, hand-held, solid-state audio players which Christian ministries and organizations can use to get their message to people in a secure and reliable manner.

Christian organizations are using these audio players to bring God's message of hope and love to non-reading people all over the world. From evangelism to pastoral training these solid-state MegaVoice audio players can be programmed in any language. Record a short message, a Gospel, the New Testament or even the whole Bible. Imagine the potential of handing out exciting testimonials from football or baseball players at Christian events! Record your own message or choose an available audio message in a variety of languages from our extensive audio Library.

Why should our ministry use MegaVoice technology rather than MP3 players?

MegaVoice players provide a secure way to get your message into the hands of the end user. Secure means the end user can't record over or replace your original message as they can on MP3 players or audiocassettes. However, MegaVoice players like our Ambassador unit allow YOU to change YOUR original message by using the MegaVoice family of programming tools.

Our MegaVoice solid-state players are a perfect choice for areas of the world where sand, water,

extreme temperatures and other environmental elements contribute to wear-and-tear on mechanically based audio players like audiocassette players.

MegaVoice players are simple for people to use. The player's icon-based facing is naturally intuitive for use in non-literate and non-technological cultures.

Rugged, lightweight, secure message, no moving parts - it's MegaVoice!

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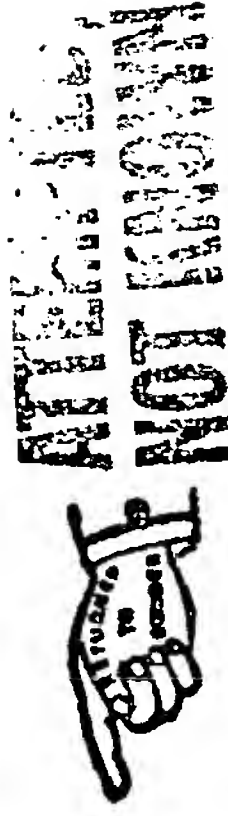
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